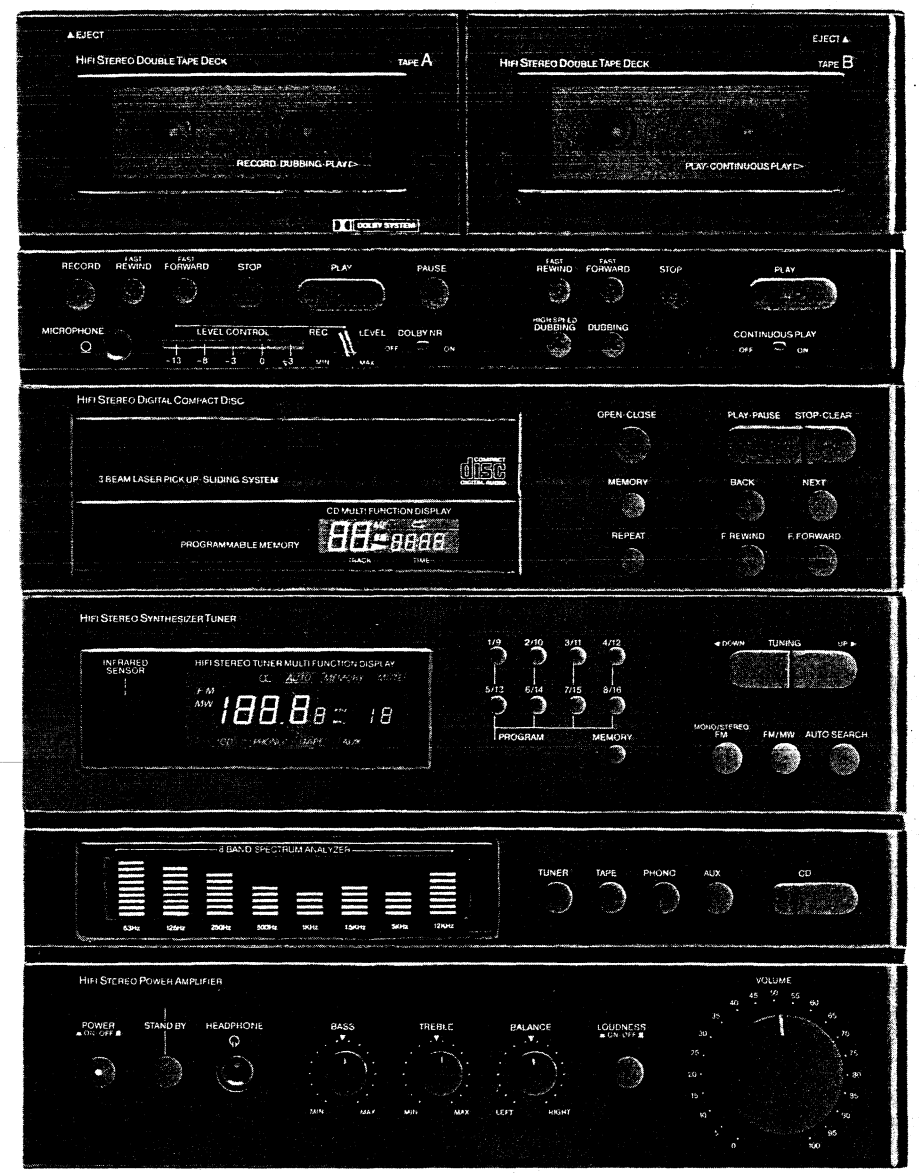
570

Serviceanweisung
Service manual

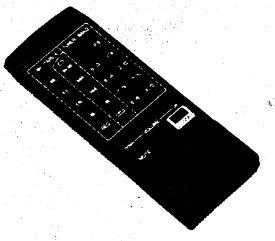
Ident-Nr. 49755
Ident-Nr. 49712

MS 100 T/AM
MS 100 DC/CD



MS 100 DC/CD

MS 100 T/AM



Schneider 570

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WICHTIGER HINWEIS

Der integrierte CD-Spieler arbeitet mit unsichtbarem Laserlicht.

Nicht in den Strahl blicken und nicht dem Strahl aussetzen!

Vorsicht, Laserstrahlung im Inneren des Gerätes!

Zur Vermeidung von Strahlungsschäden darf das Gehäuse nur von qualifiziertem Fachpersonal geöffnet werden.

Informationsetikett auf der Geräterückseite (siehe Bild).

The integrated CD-Player works with invisible laser-light.

Do not look into this beam and don't abandon yourself to radiation.

Attention, laser-radiation also inside of the unit!

To avoid damages of radiation unit should be opened only by qualified service personnel.

Information label on the rear of unit (see picture).

ADVARSEL!

Usynlig laserstrålning ved åbning når sikkerheds afbrydere er ude af funktion. Undgå udsaettelse for strålning.

VAROITUS!

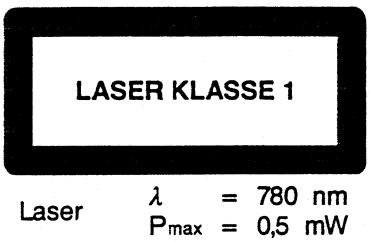
Suojakoteloa ei saa avata. Laite sisältää laserdiodin, joda lähettää näkymäntöntä silmille vaarallista lasersäteilyä.

VARNING!

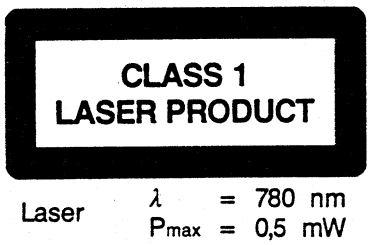
Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen!

VARO!

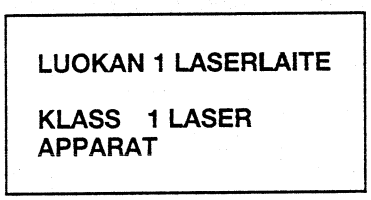
Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.

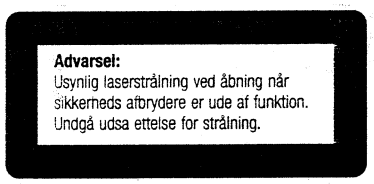


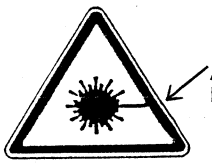
Warnetikett in dem Plattenfach (siehe Bild).



Warning label in record-drawer (see picture).





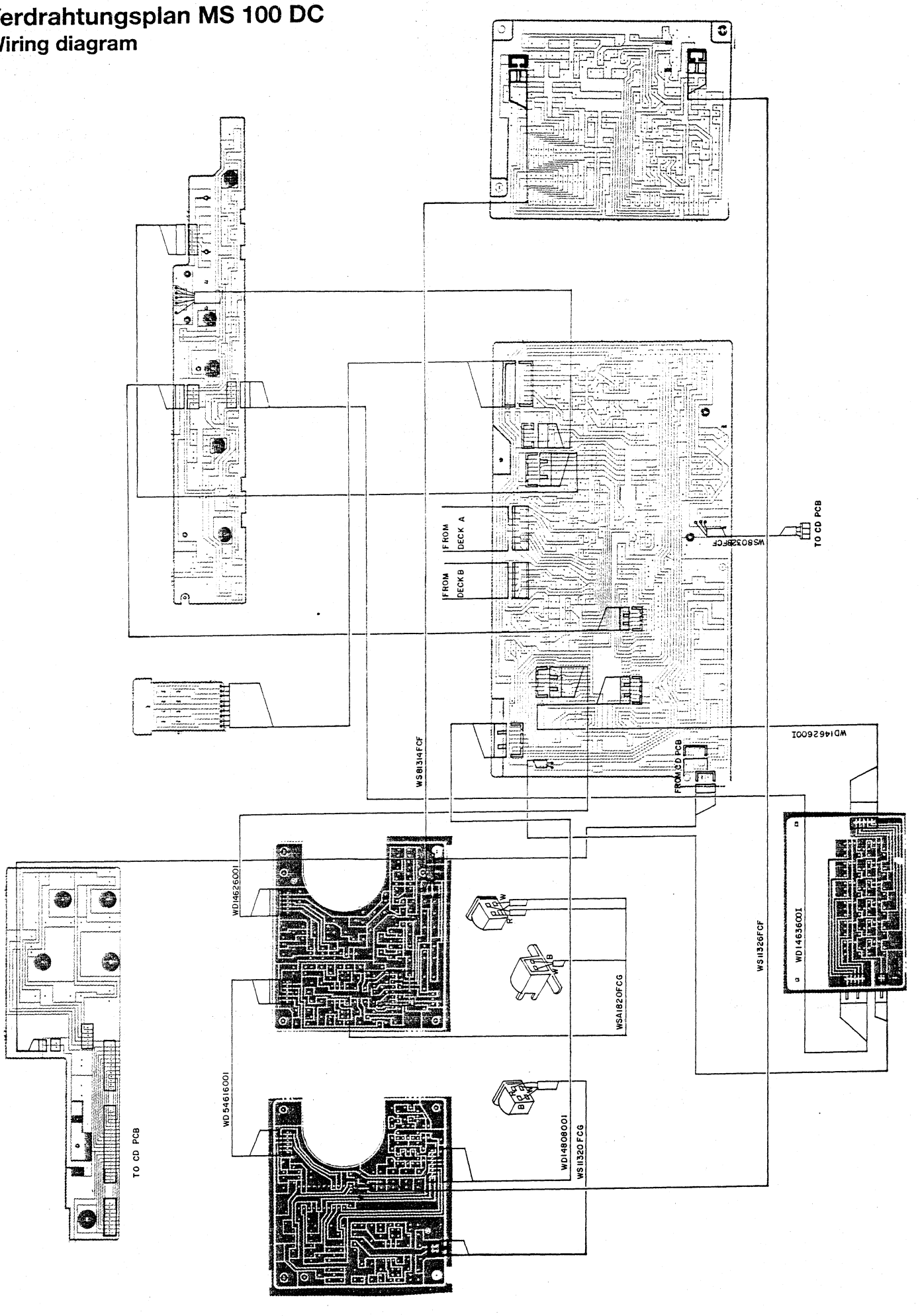


Austrittsöffnung für Laserstrahlung
Discharge orifice für Laser radiation

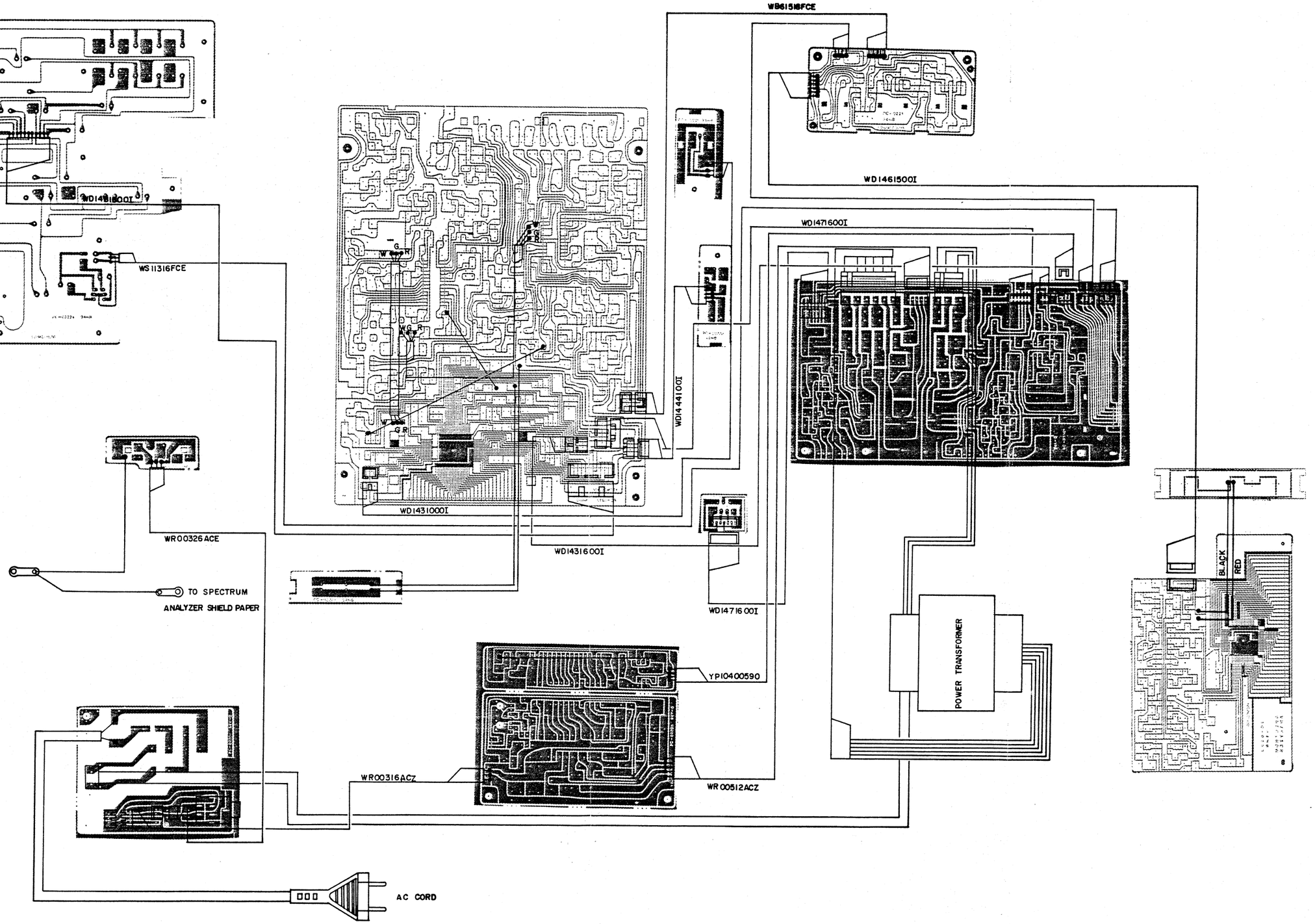
Hinweis für Original-Etikett:
Schrift und Umrandung schwarz, Untergrund gelb.

Indication for original label:
Letters and surrounding black, background yellow.

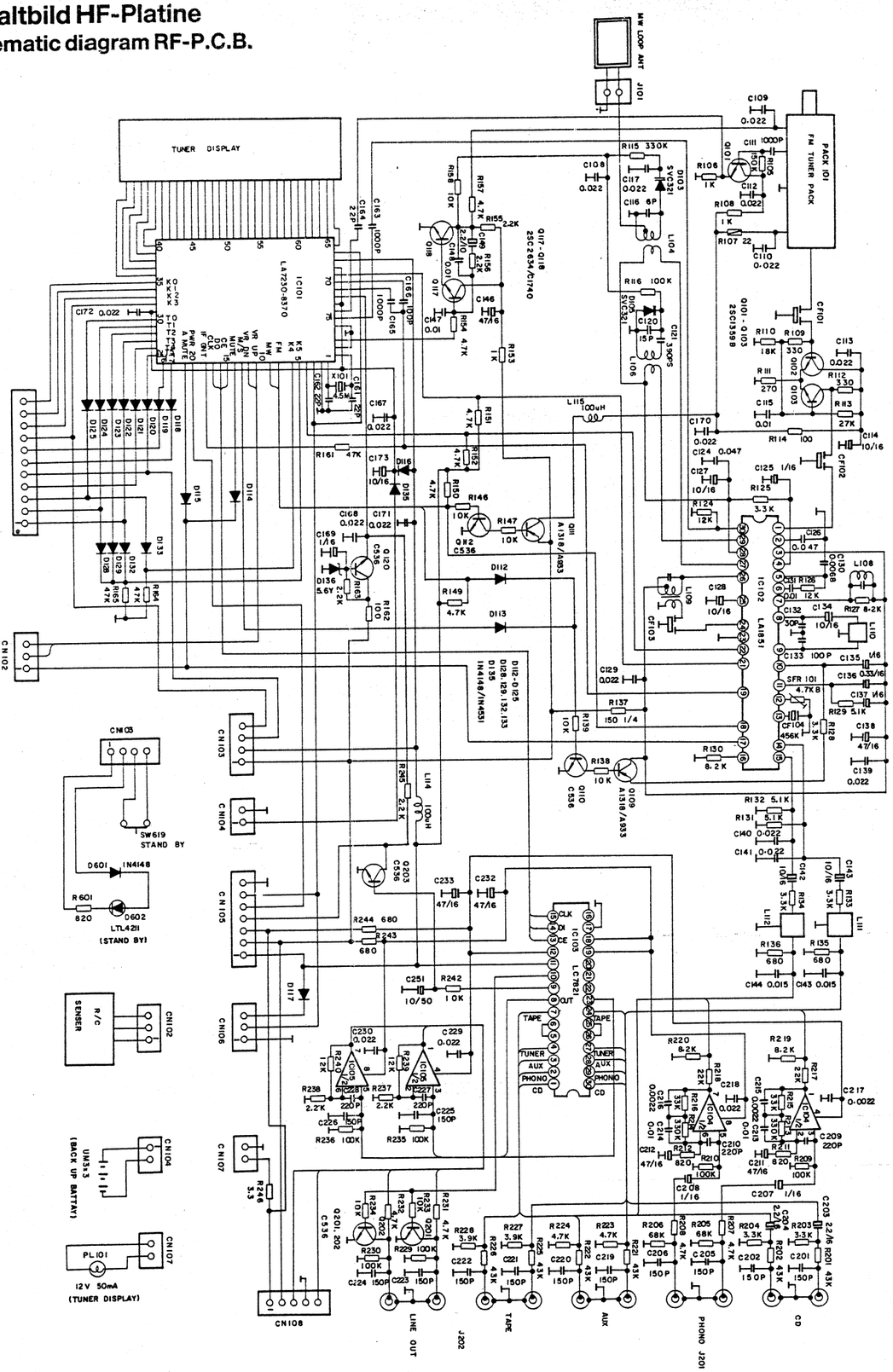
Verdrahtungsplan MS 100 DC
Wiring diagram



Verdrahtungsplan MS 100 T/AM
Wiring diagram

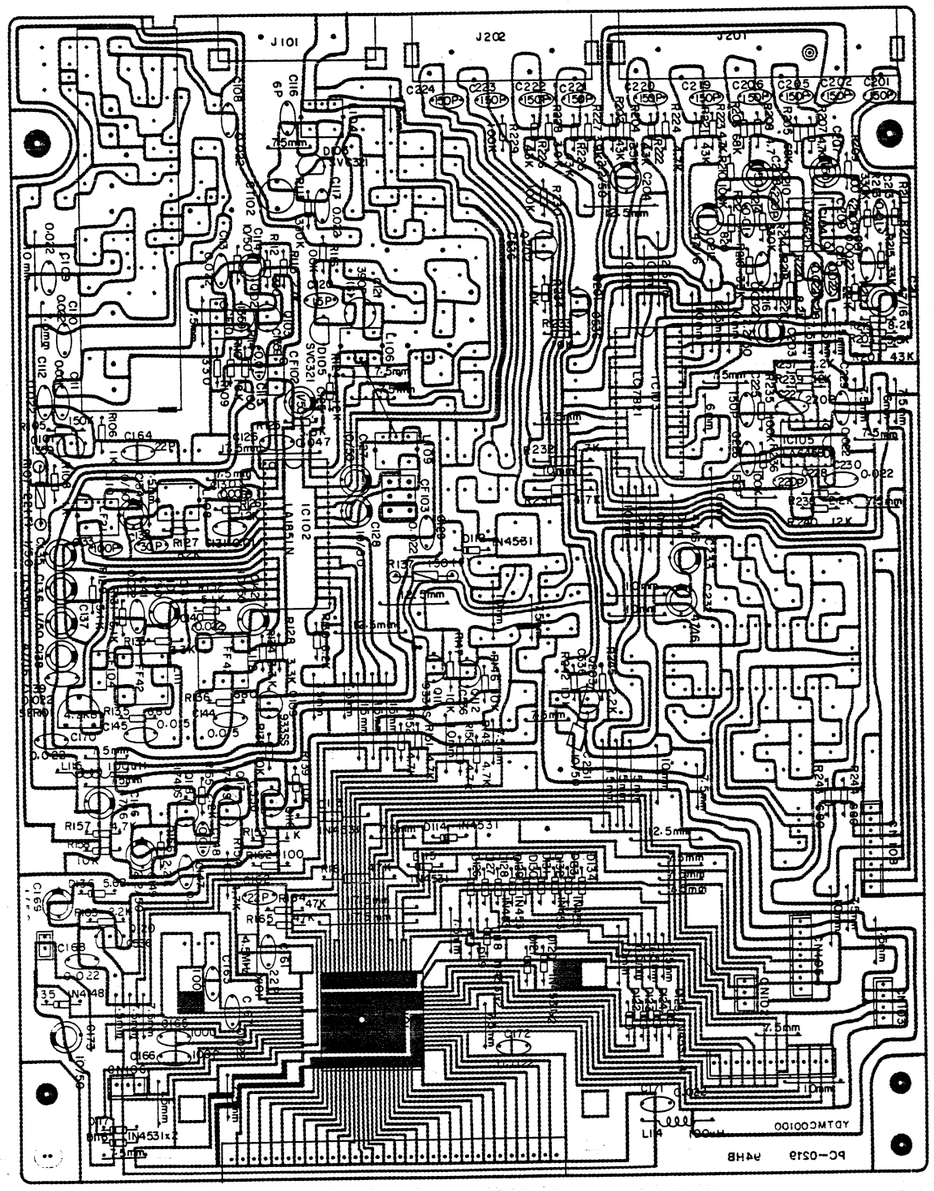


Schaltbild HF-Platine
Schematic diagram RF-P.C.B.



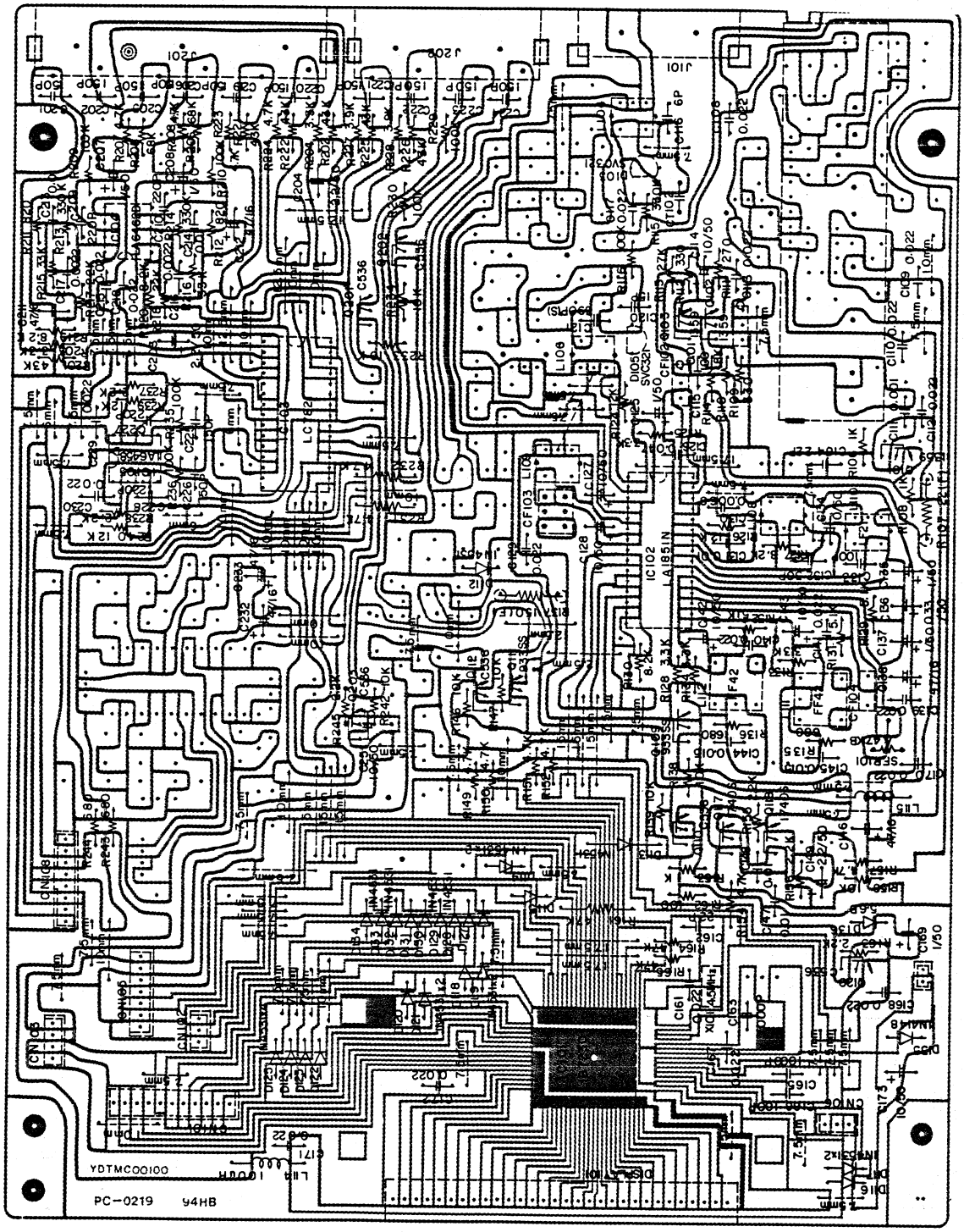
Platinendarstellung HF
RF P.C.B.

Bestückungsseite/Top view

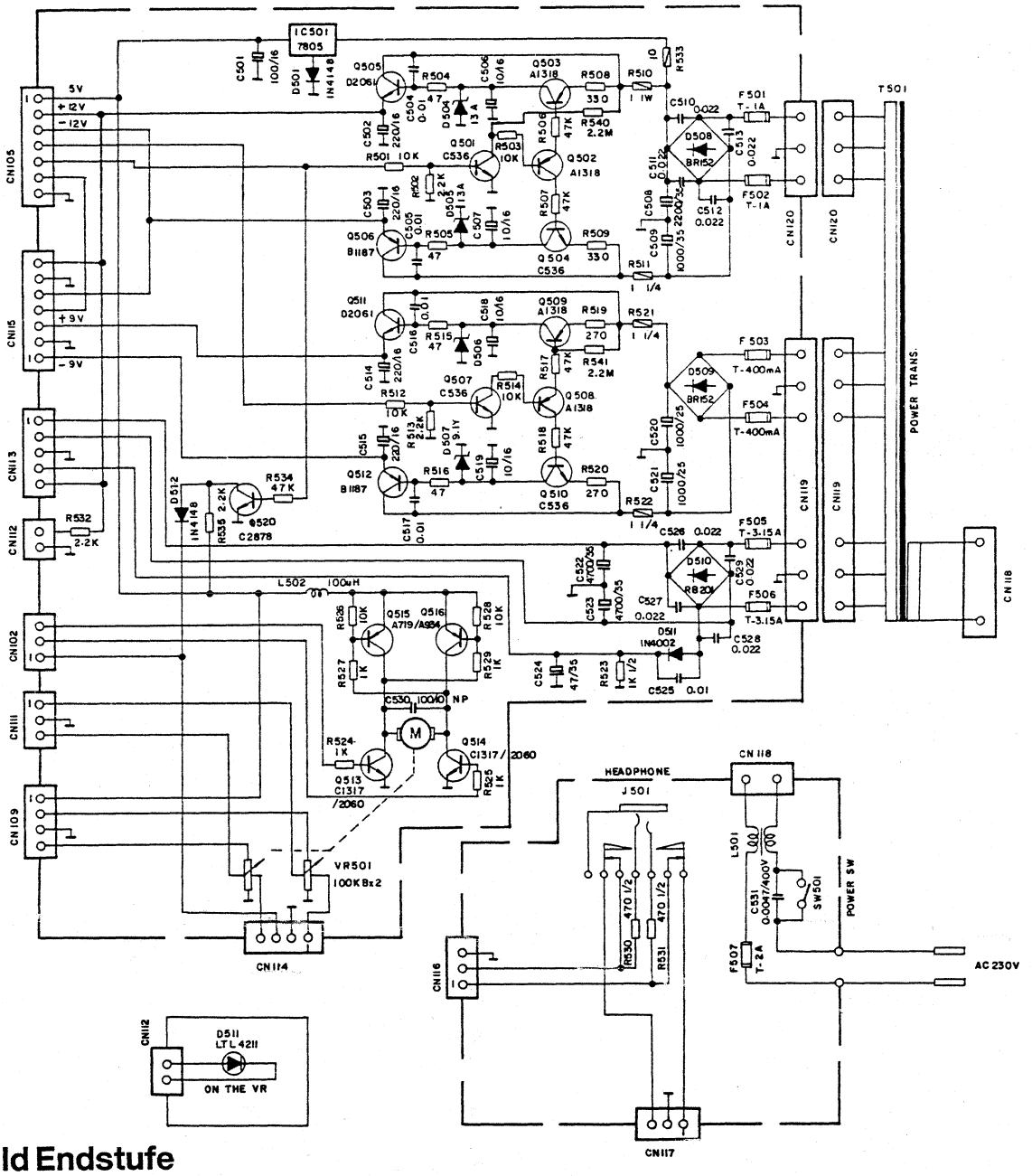


Platinendarstellung HF Platine
RF P.C.B.

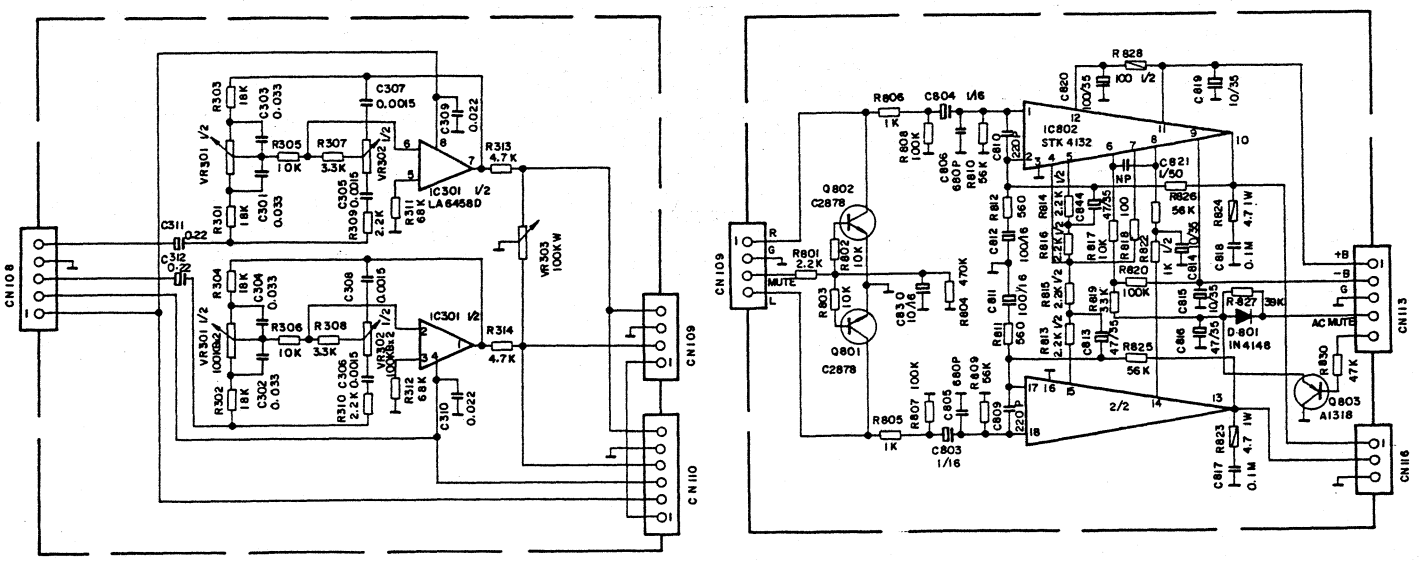
Leiterbahnseite/Bottom view



Schaltbild Netzteil
Schematic diagram power supply



Schaltbild Endstufe
Schematic diagram audio

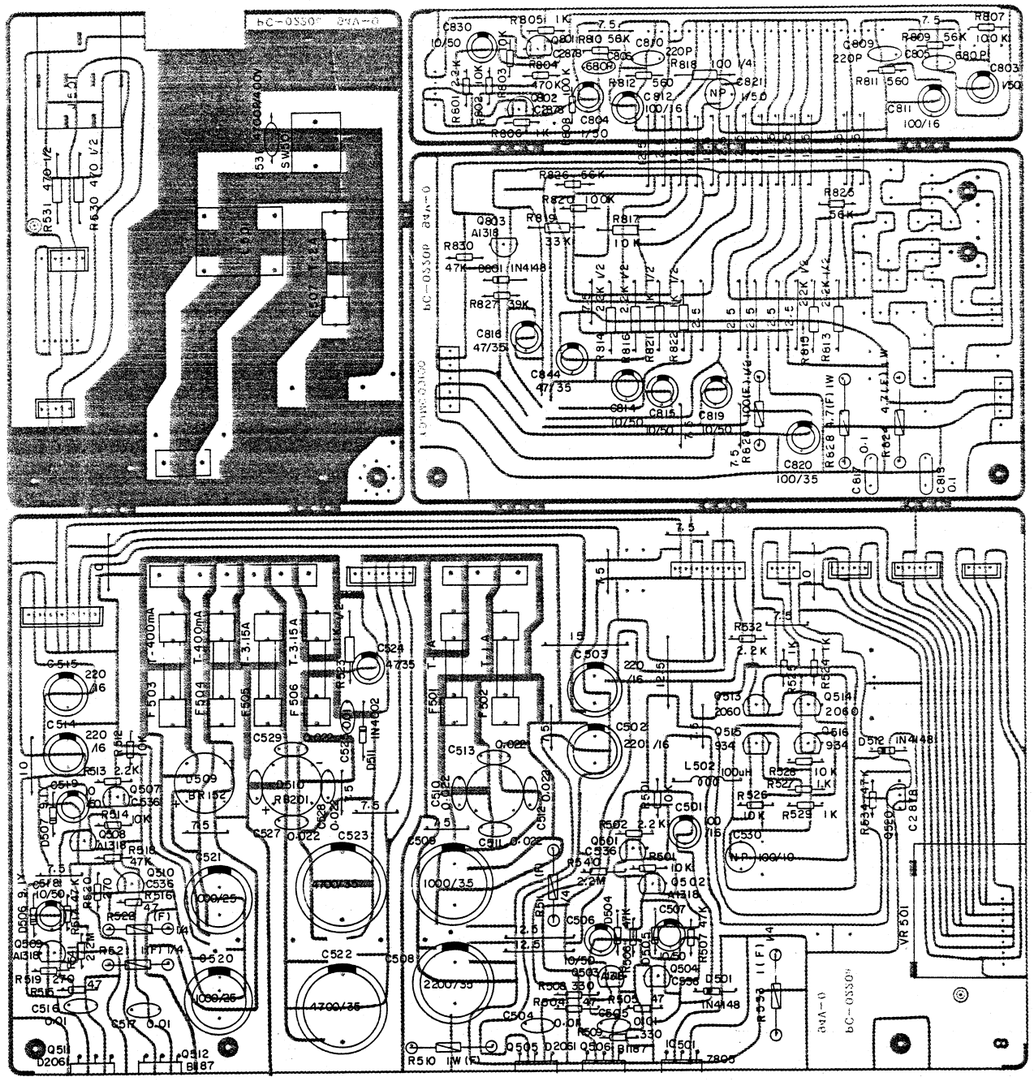


Platinendarstellung Netzteil/Endstufe
Power supply/audio P.C.B.

Bestückungsseite/Top view

Netzschalterplatine/
Power switch P.C.B.

Endstufenplatine/
Audio



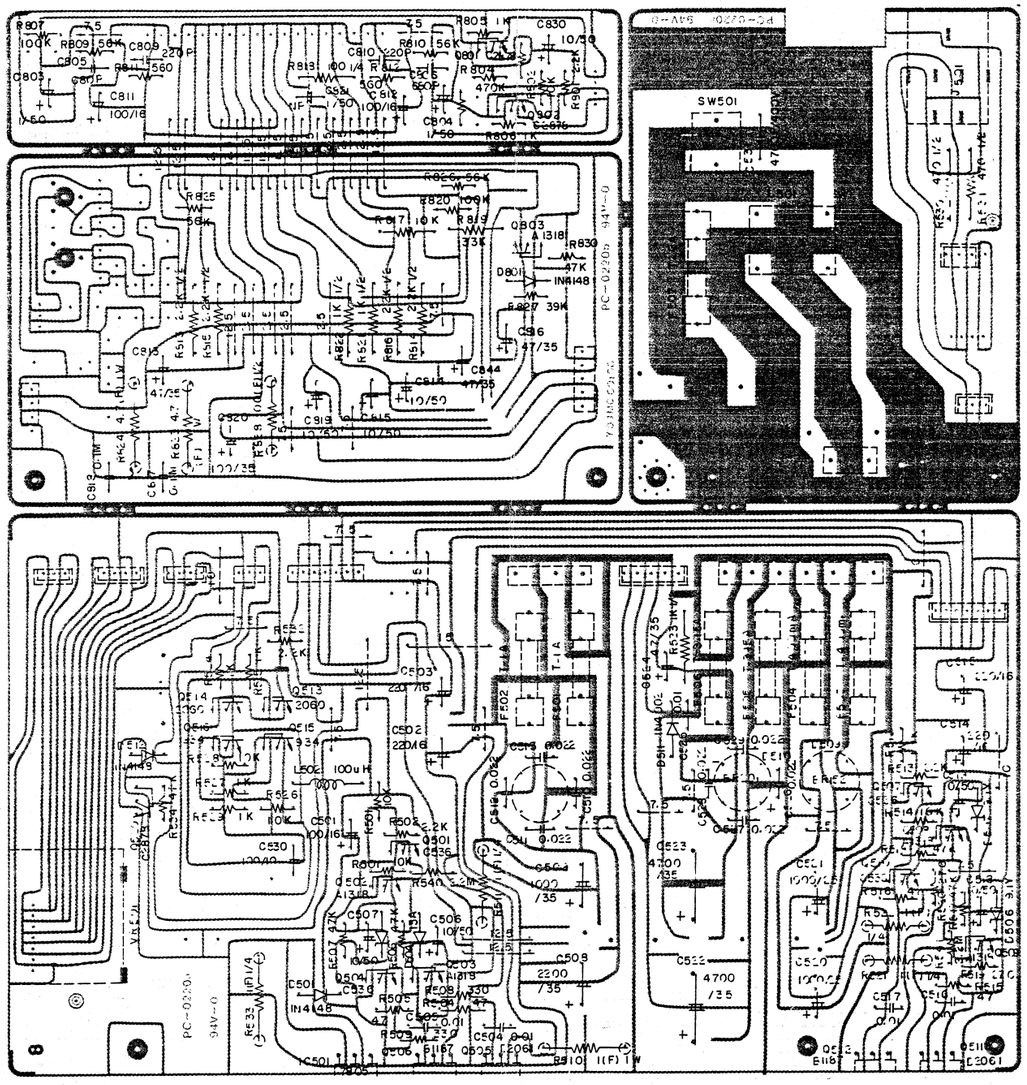
Netzteil/Power supply

Platinendarstellung Netzteil/Endstufe
Power supply/audio P.C.B.

Leiterbahnseite/Bottom view

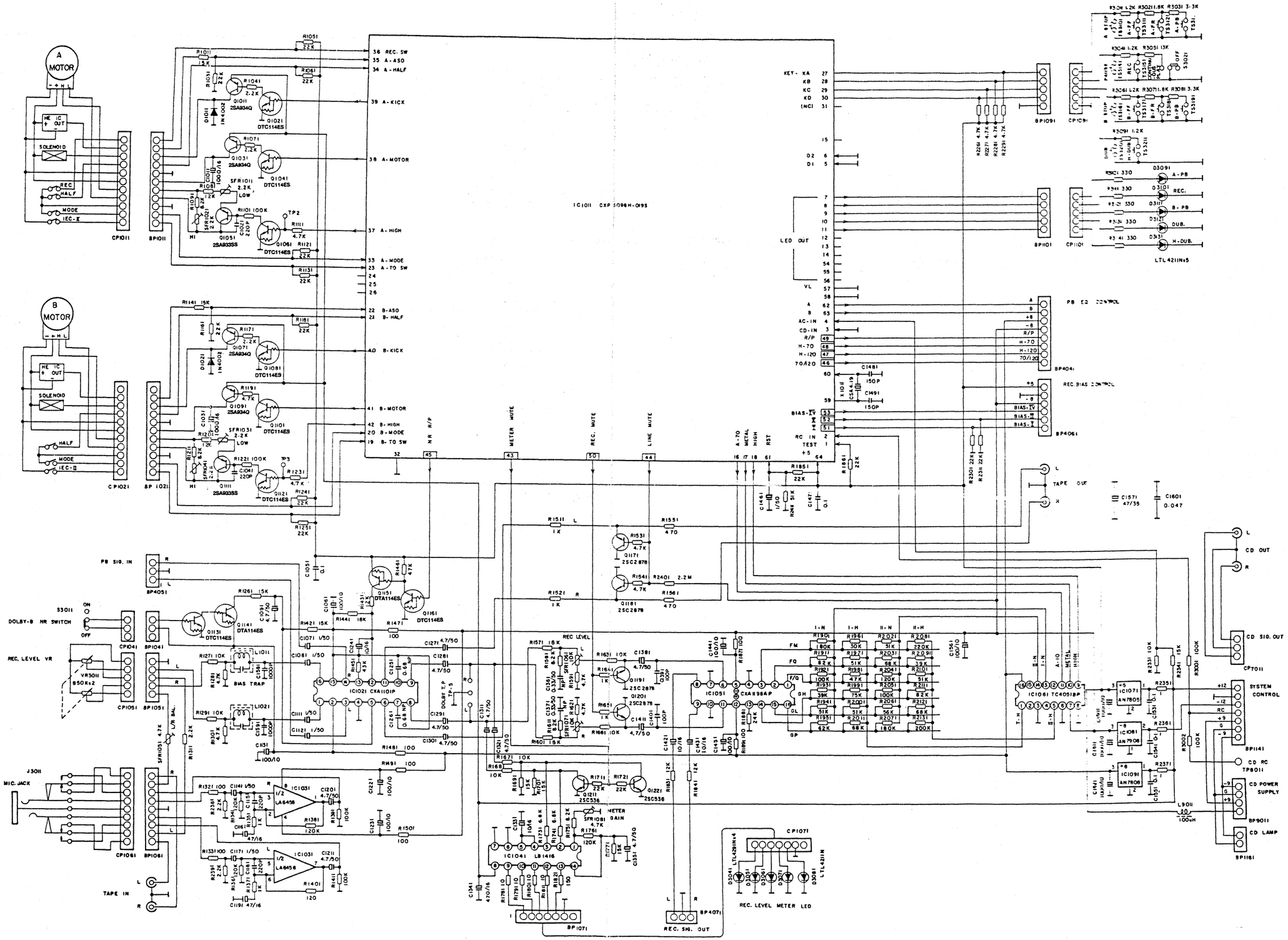
Endstufenplatine/
Audio

Netzschalterplatine/
Power switch P.C.B.



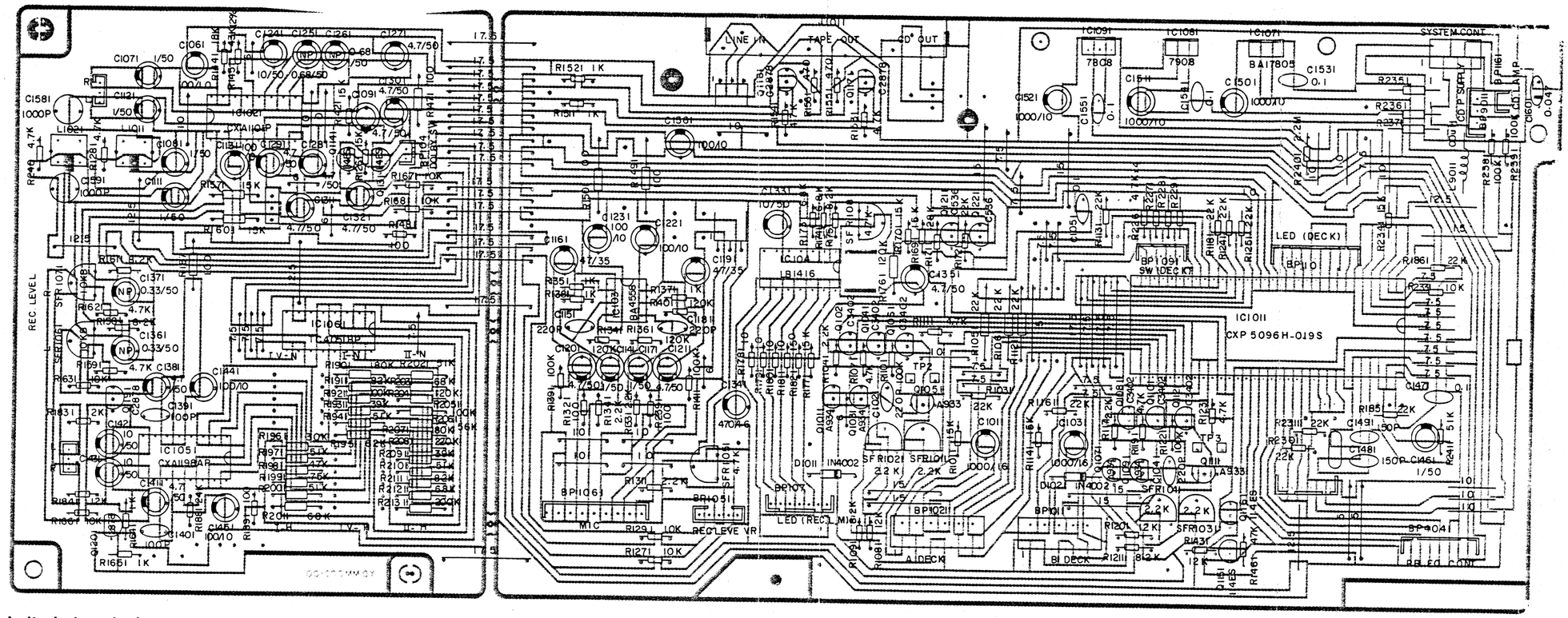
Netzteil/Power supply

Schaltbild Recorder-Hauptplatine
Schematic diagram (tape main)

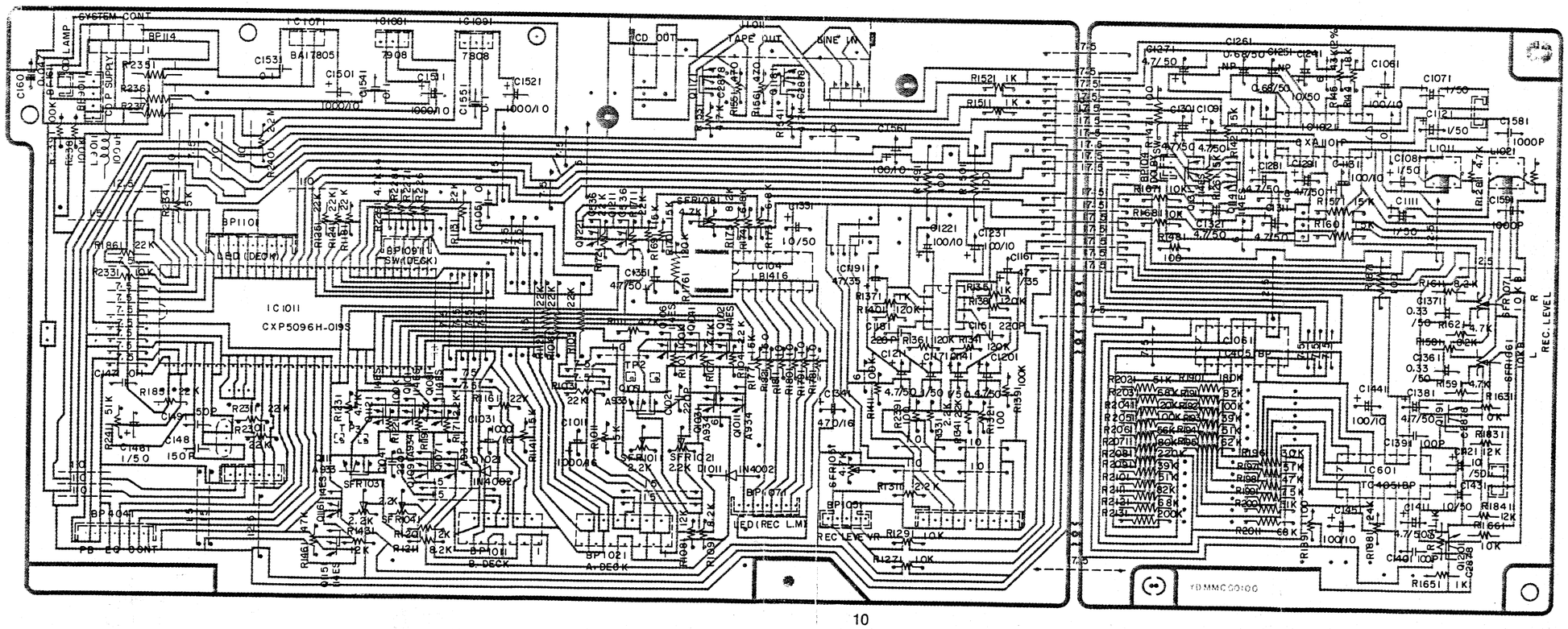


Platinendarstellung Recorder Hauptplatine
Tape main P.C.B.

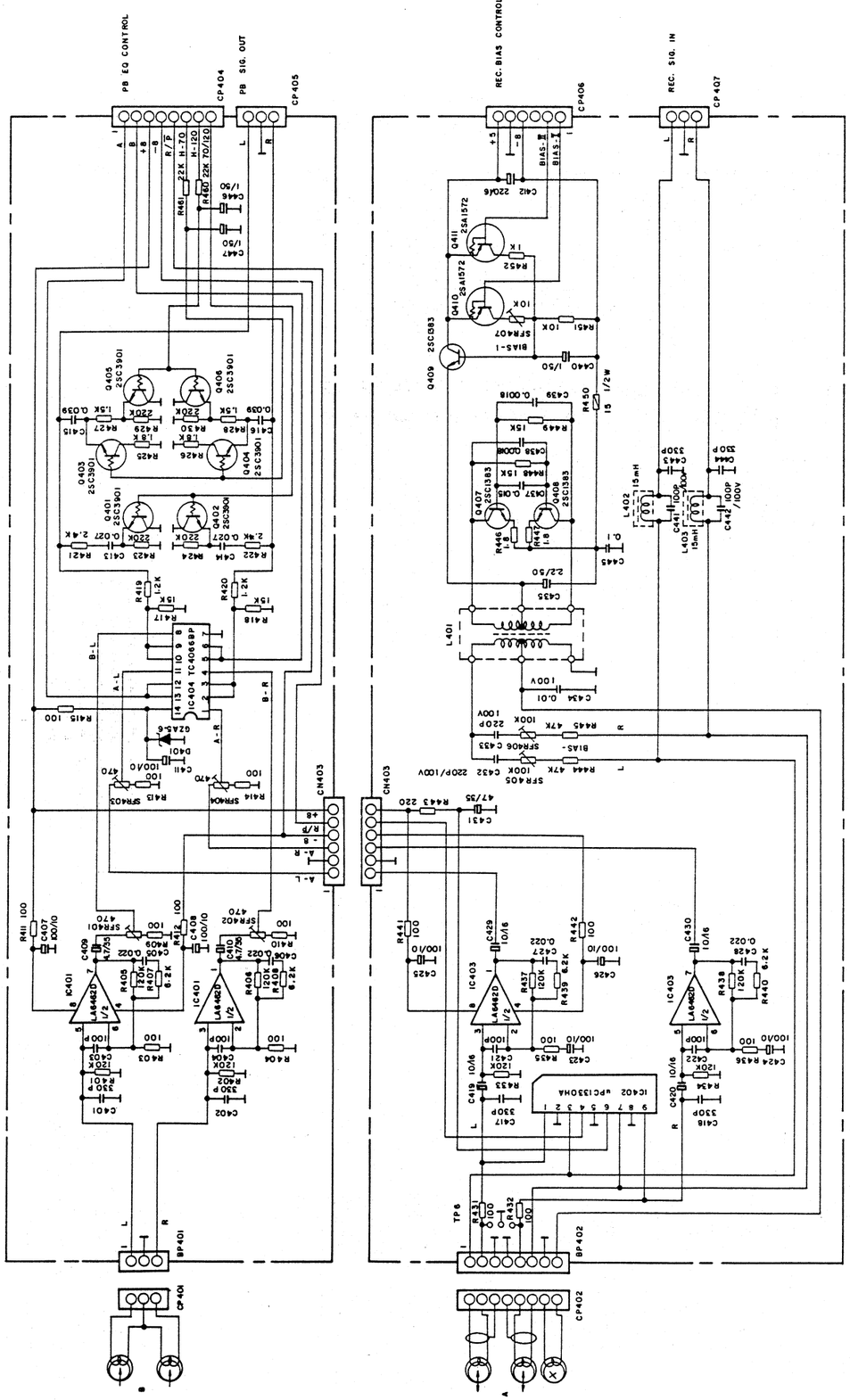
Bestückungsseite/
Top view



Leiterbahnseite/
Bottom view

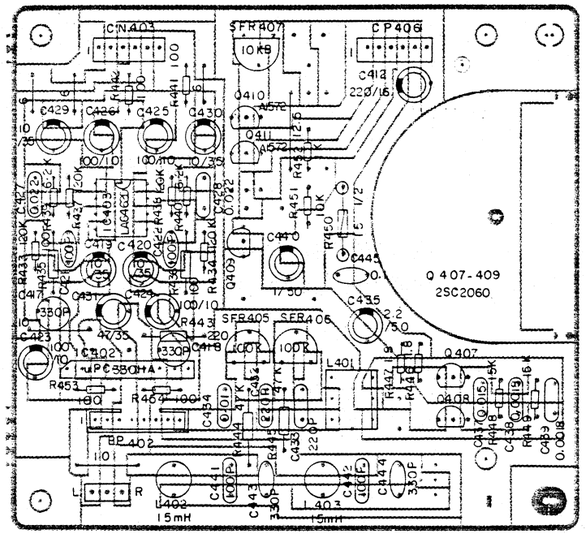


Schaltbild Cassette Wiedergabe
Schematic diagram Play EQ

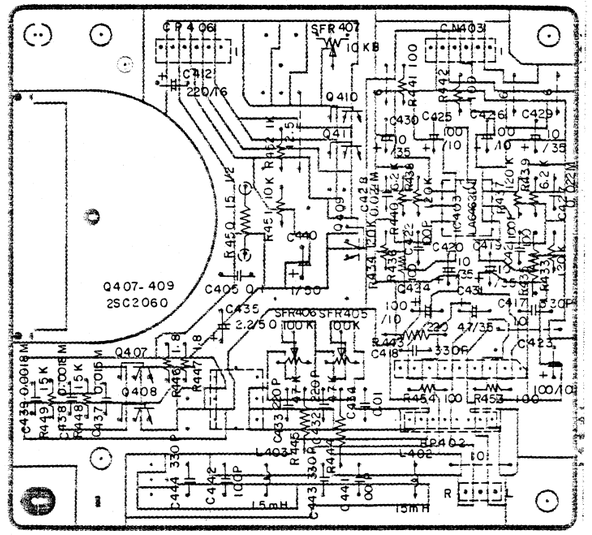


Platinendarstellung Cassette Wiedergabe
Play EQ P.C.B.

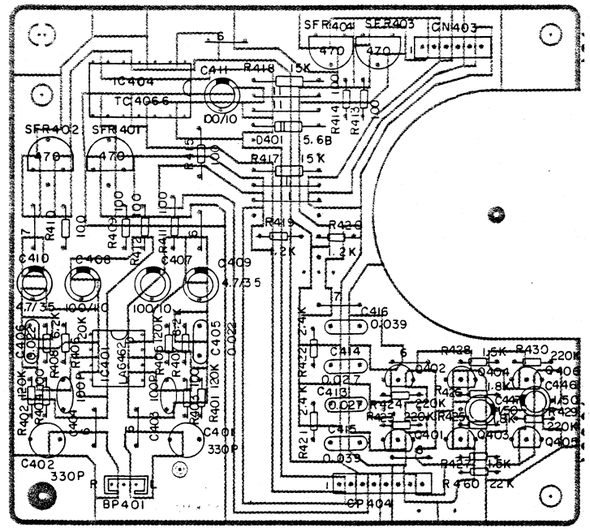
Tape A (Record/Play)
Bestückungsseite/Top view



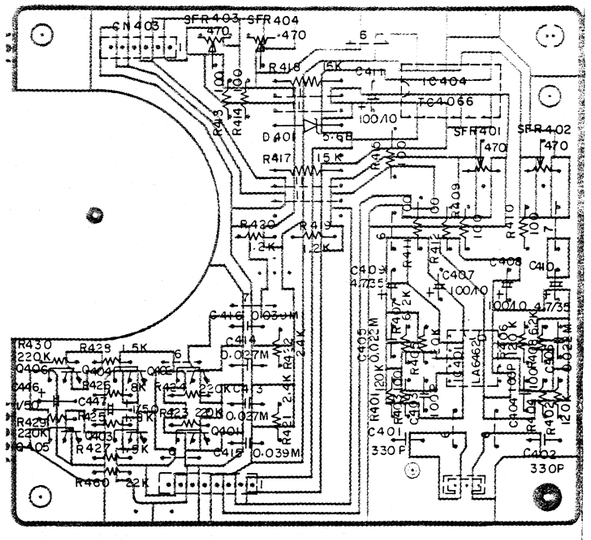
Leiterbahnseite/Bottom view



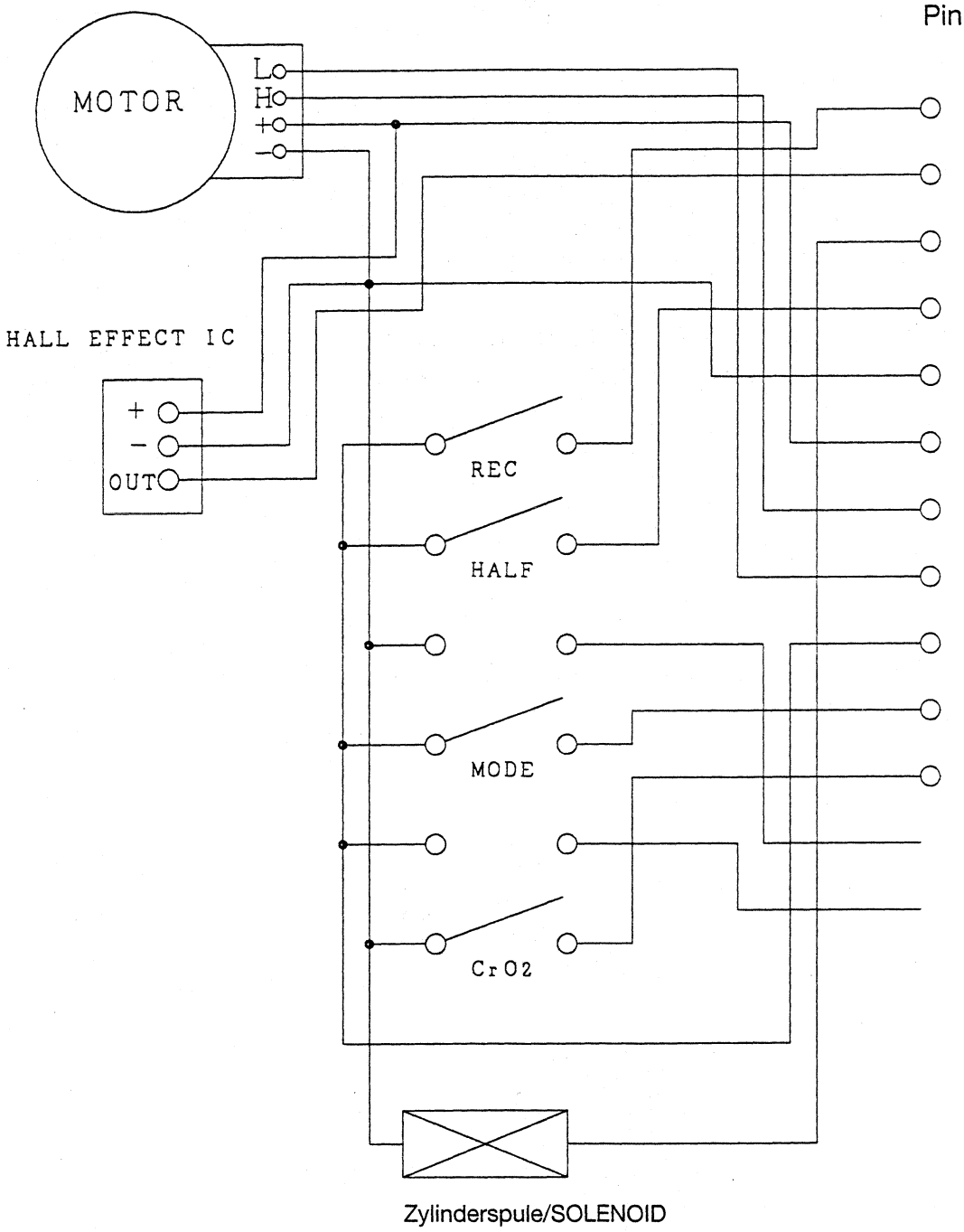
Tape B (Play)
Bestückungsseite/Top view



Leiterbahnseite/Bottom view



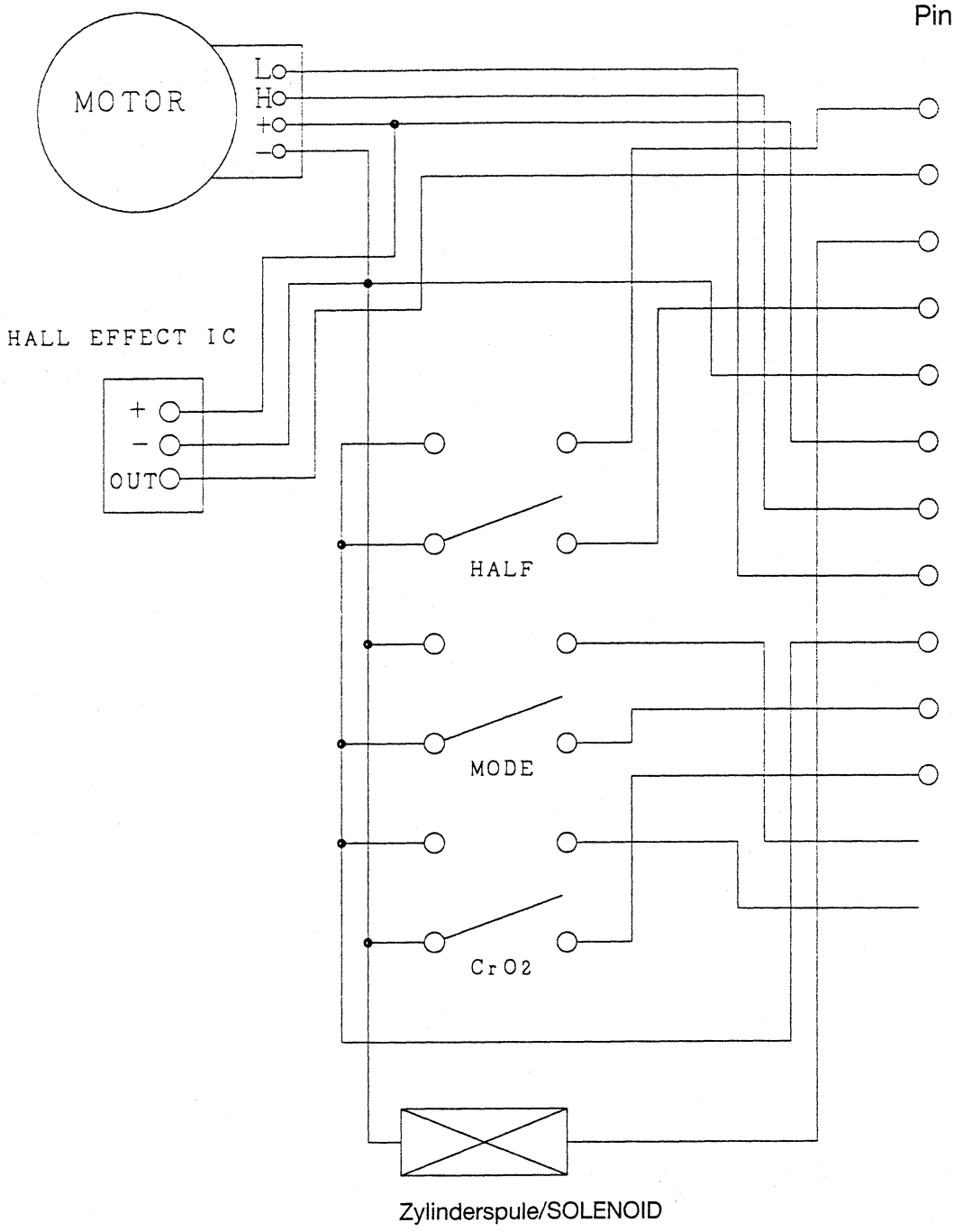
Schaltbild Cassette A/W (Tape A)
Schematic diagram record/play tape



Pin No.

1. Aufnahmeschalter REC SW
2. Hallimpulse HALL OUT
3. Zylinderspule 12 V SOL. 12 V
4. HALF SW
5. GND
6. Vcc 12 V
7. MOTOR H
8. MOTOR L
9. Gemeinsamer Anschluß COM
10. „Play" Schalter MODE SW
11. CrO_2-Schalter CrO_2 SW

Schaltbild Cassette Wiedergabe (Tape B)
Schematic diagram play tape

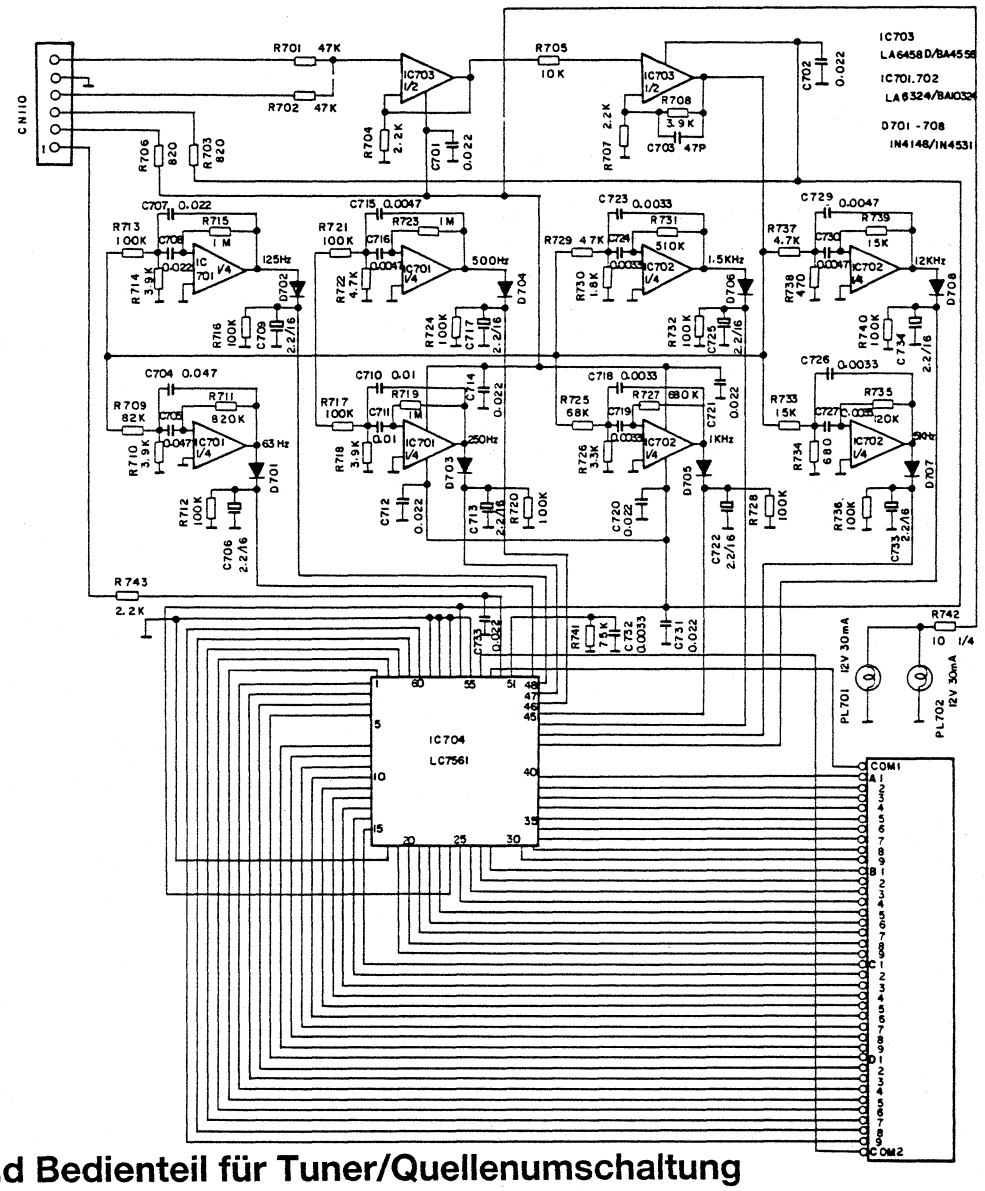


Pin No.

1. Nicht belegt
   NC
2. Hallimpulse
   HALL OUT
3. Zylinderspule 12 V
   SOL. 12 V
4. HALF SW
5. GND
6. Vcc 12 V
7. MOTOR H
8. MOTOR L
9. Gemeinsamer
   Anschluß
   COM
10. „Play"-Schalter
    MODE SW
11. CrO_2-Schalter
    CrO_2 SW

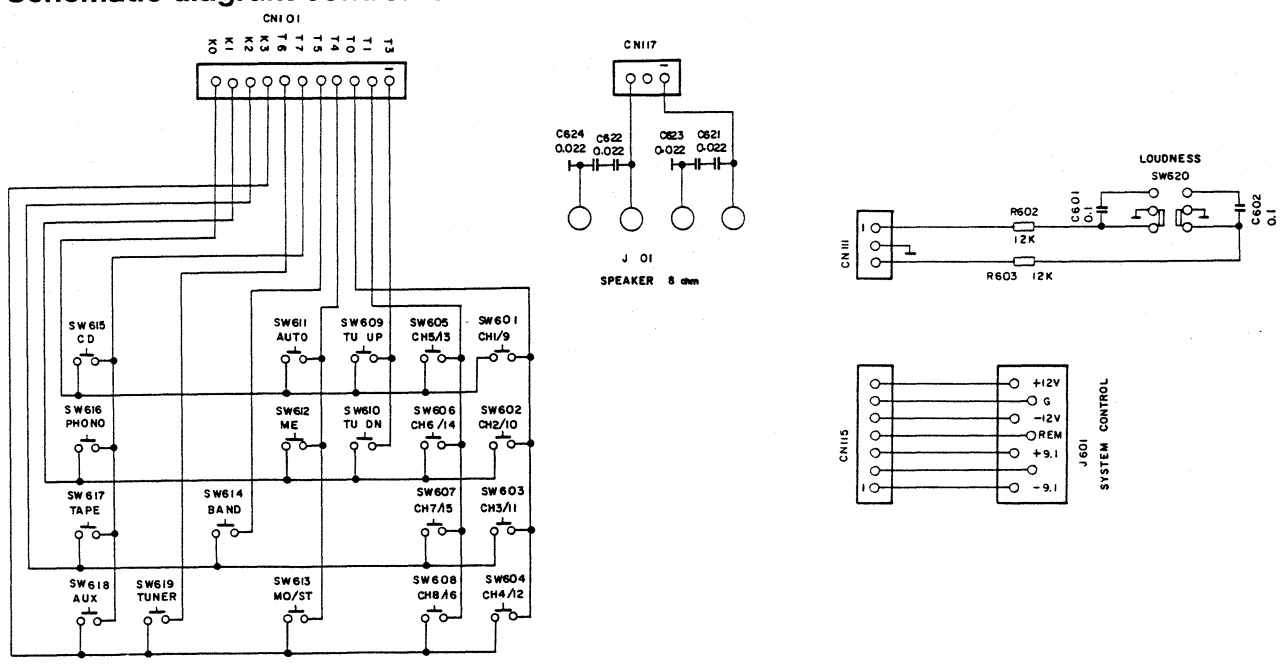
Schaltbild Spectrum Analyzer

Schematic diagram spectrum analyzer



Schaltbild Bedienteil für Tuner/Quellenumschaltung

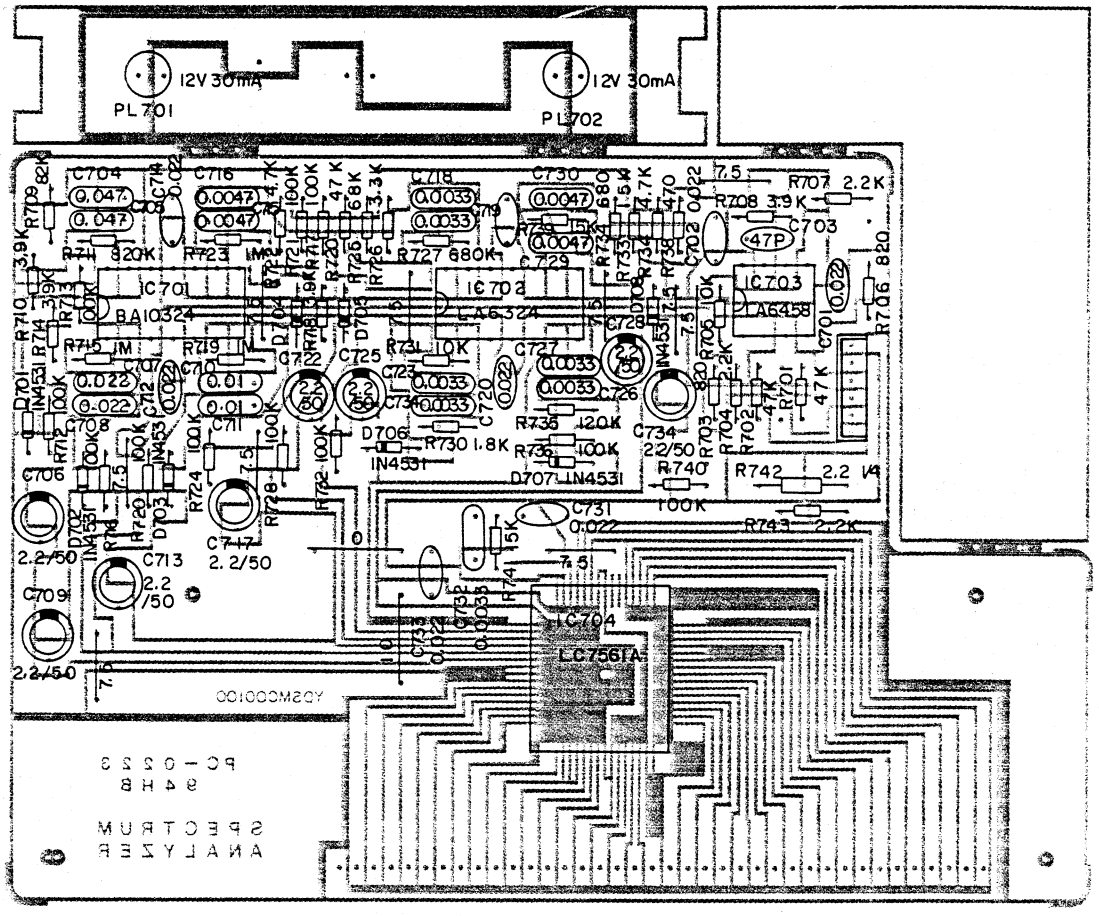
Schematic diagram control for tuner/mixture



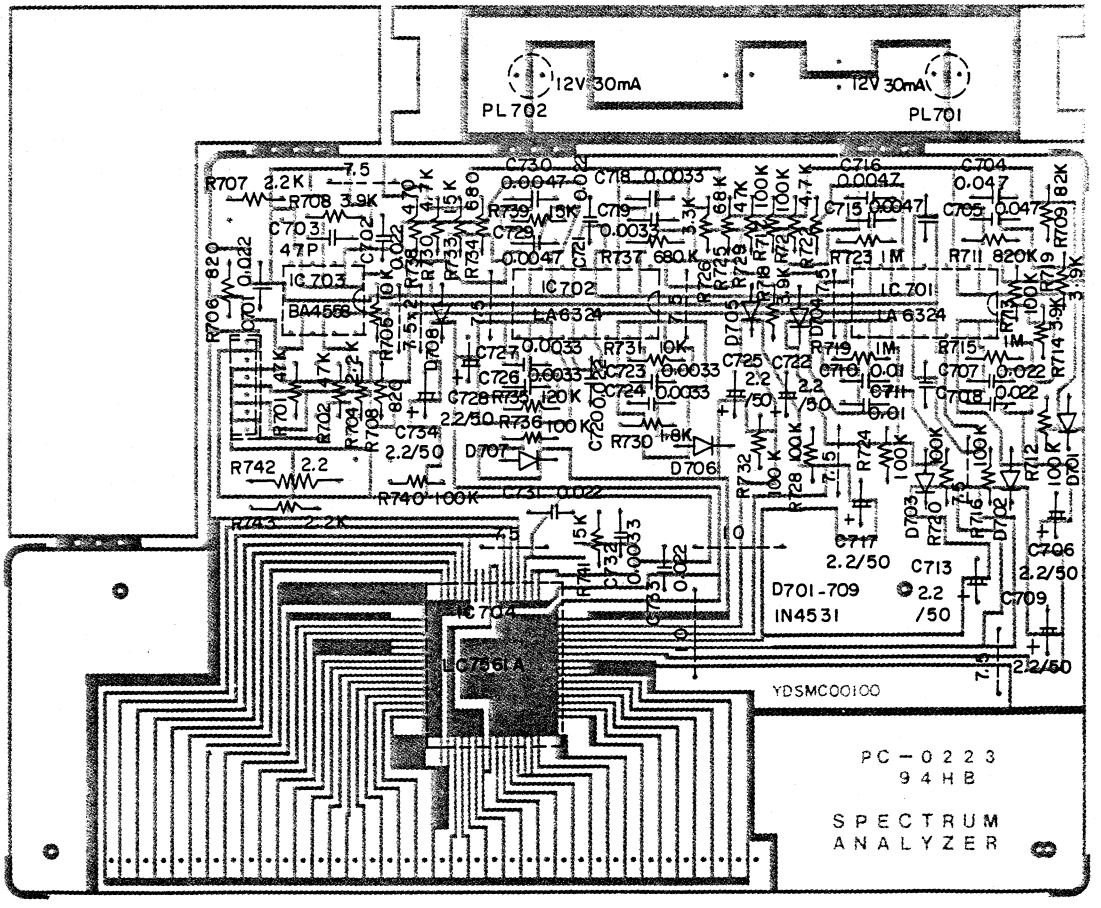
Platinendarstellung Spectrum Analyzer

Spectrum analyzer P.C.B.

Bestückungsseite/
Top view

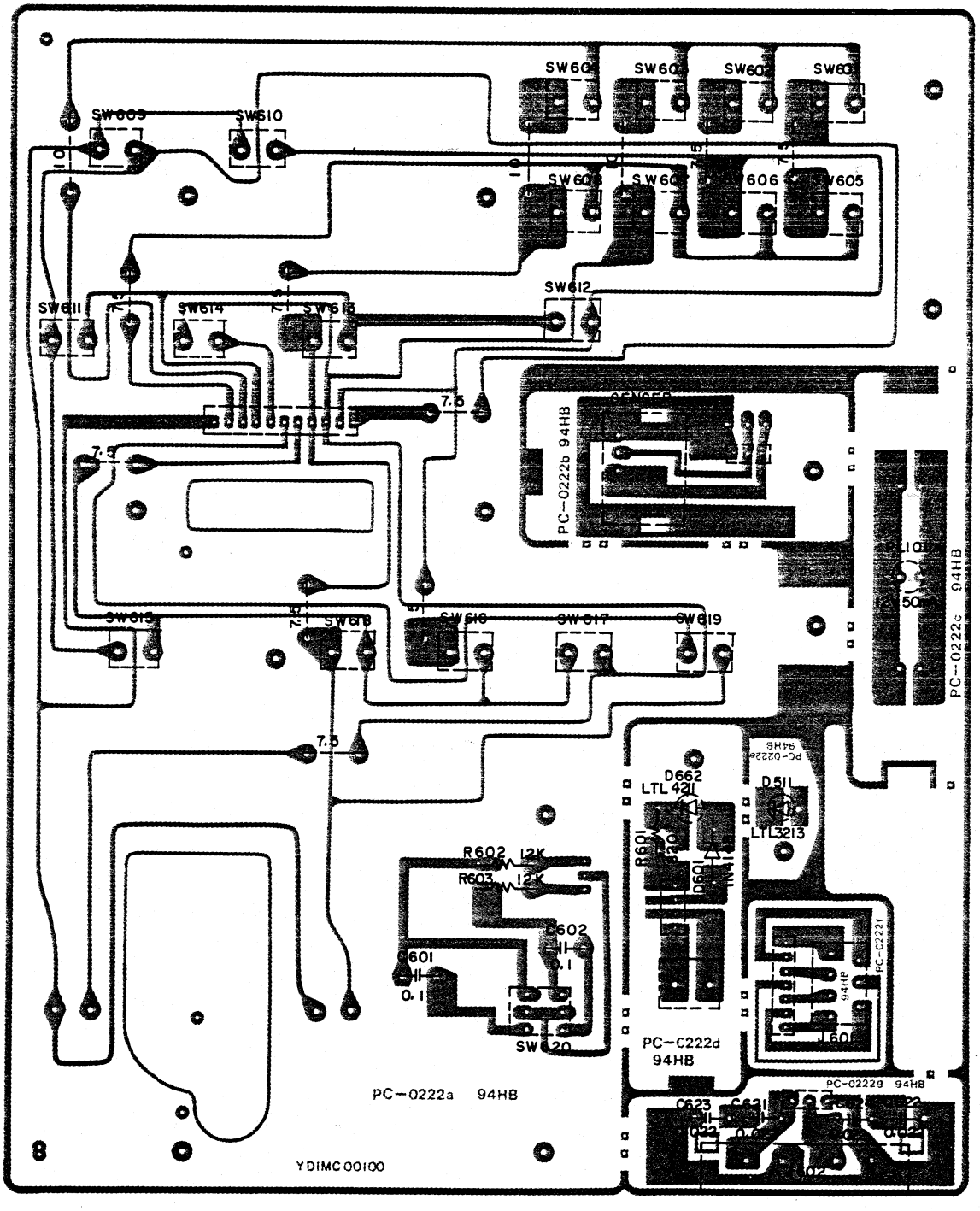


Leiterbahnseite/
Bottom view



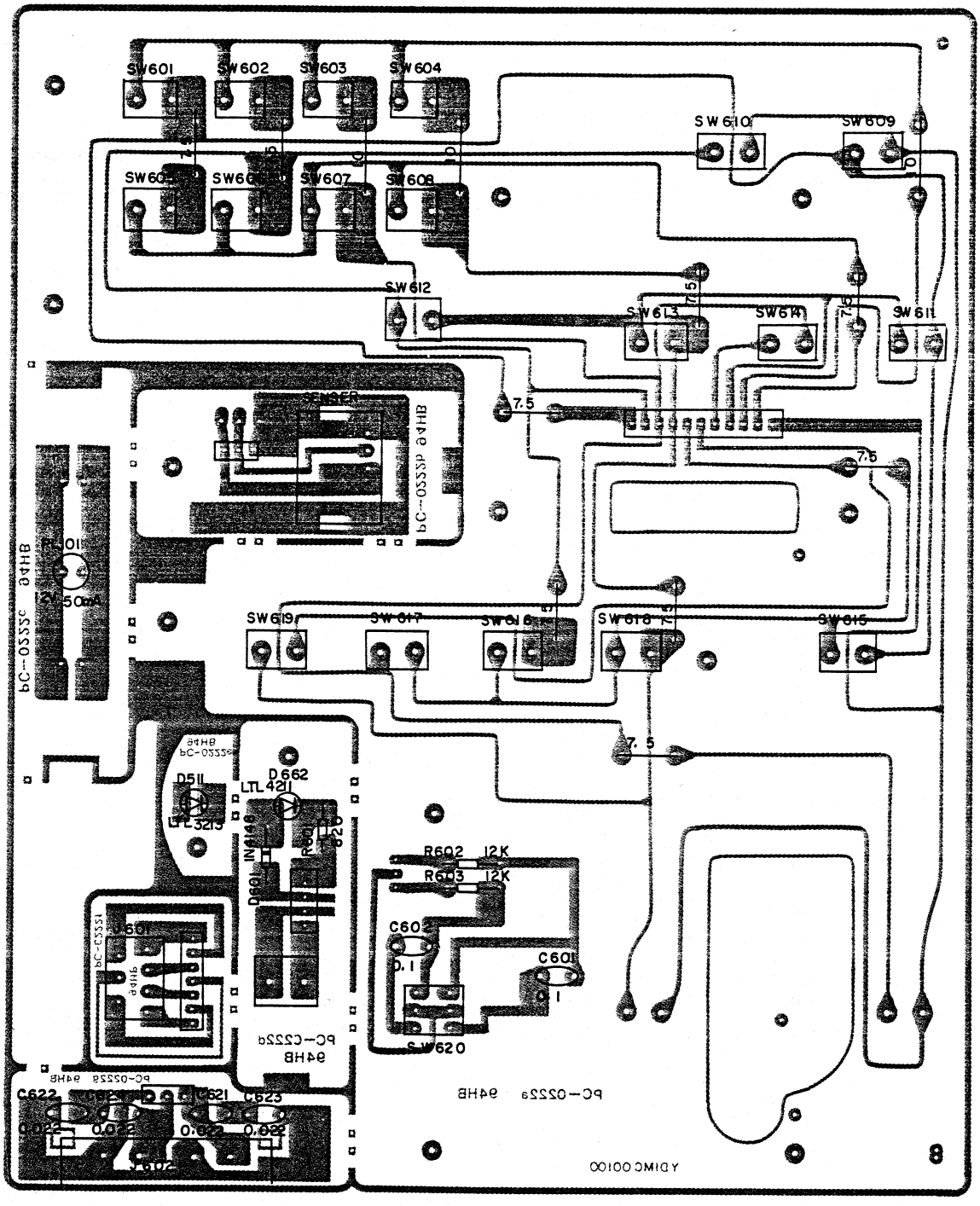
Platinendarstellung Bedienteil für Tuner/Quellenumschaltung
Mixture P.C.B.

Leiterbahnseite/
Bottom view

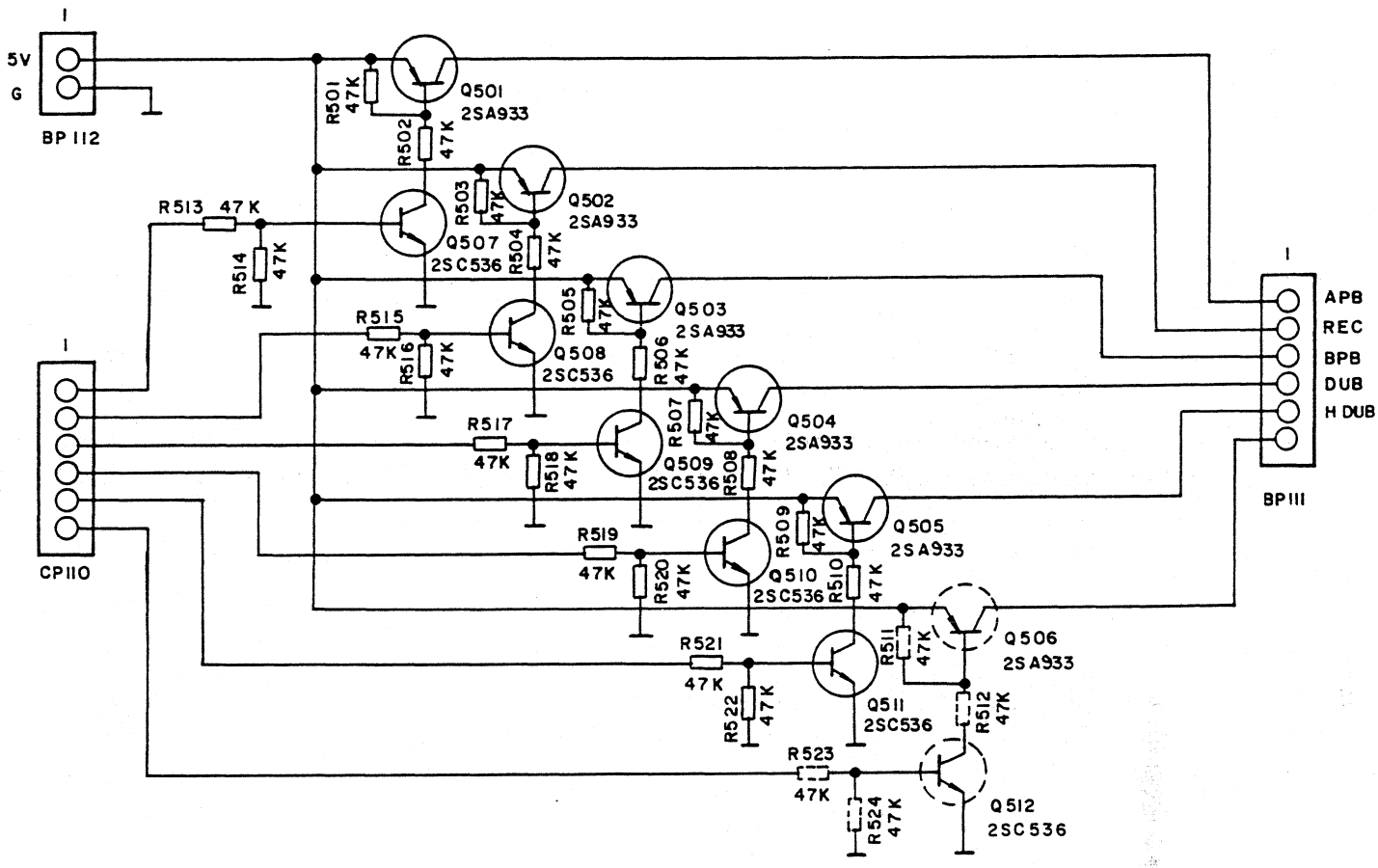


Platinendarstellung Bedienteil für Tuner/Quellenumschaltung
Mixture P.C.B.

Bestückungsseite/
Top view

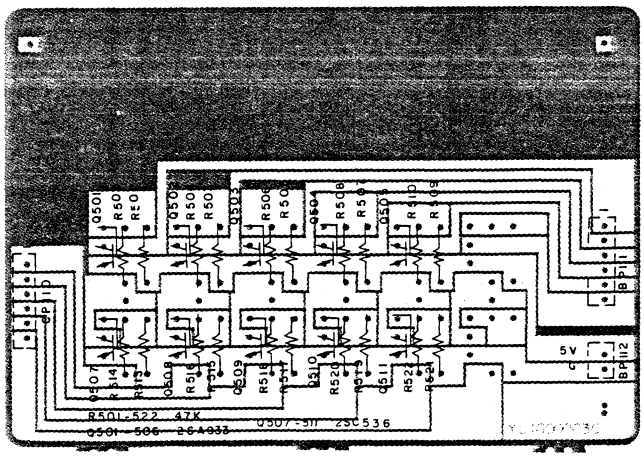


Schaltbild LED-Treiber
Diagram LED driver

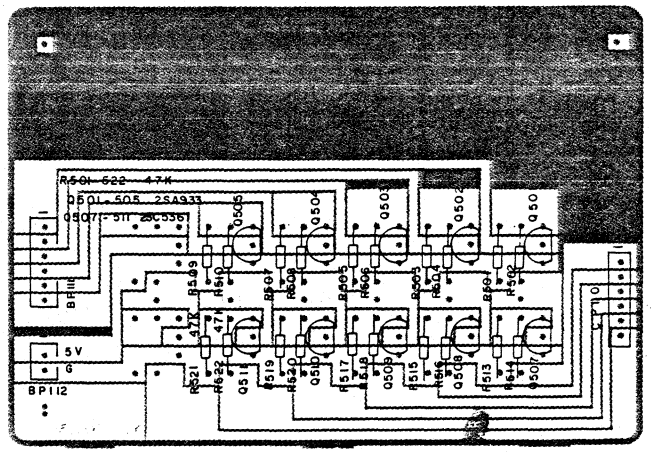


Platinendarstellung LED-Treiber
LED driver P.C.B.

Bestückungsseite/
Top view

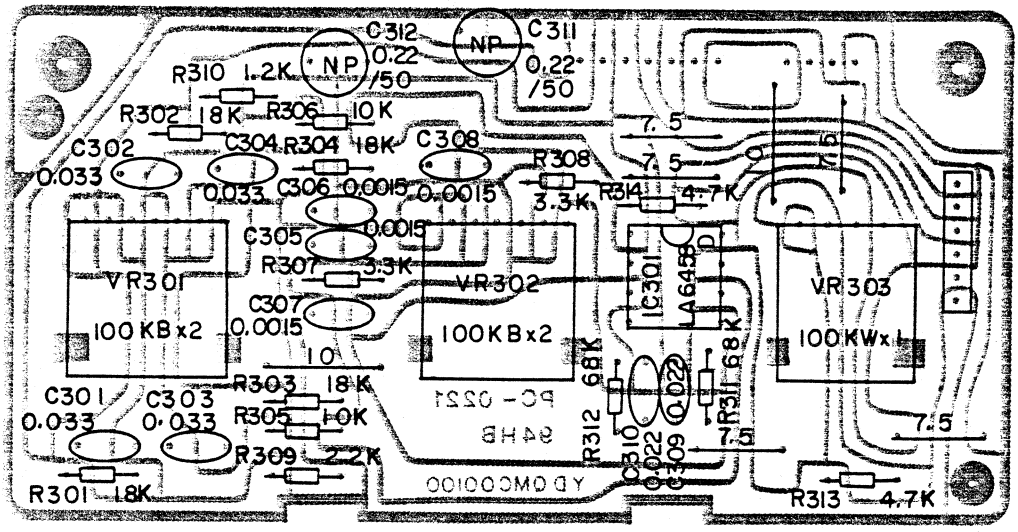


Leiterbahnseite/
Bottom view

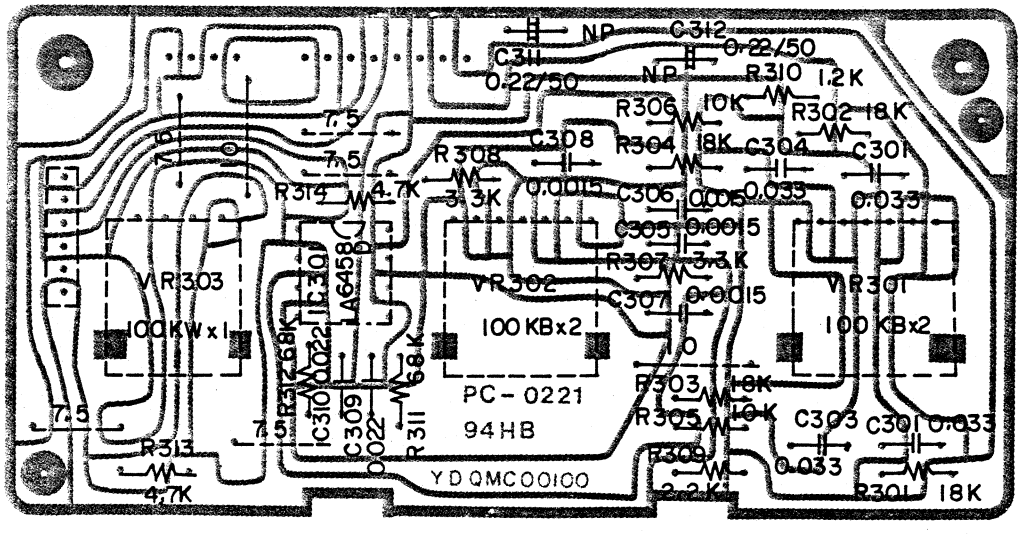


Platinendarstellung Klangreglerplatine
Tone P.C.B.

Bestückungsseite/
Top view

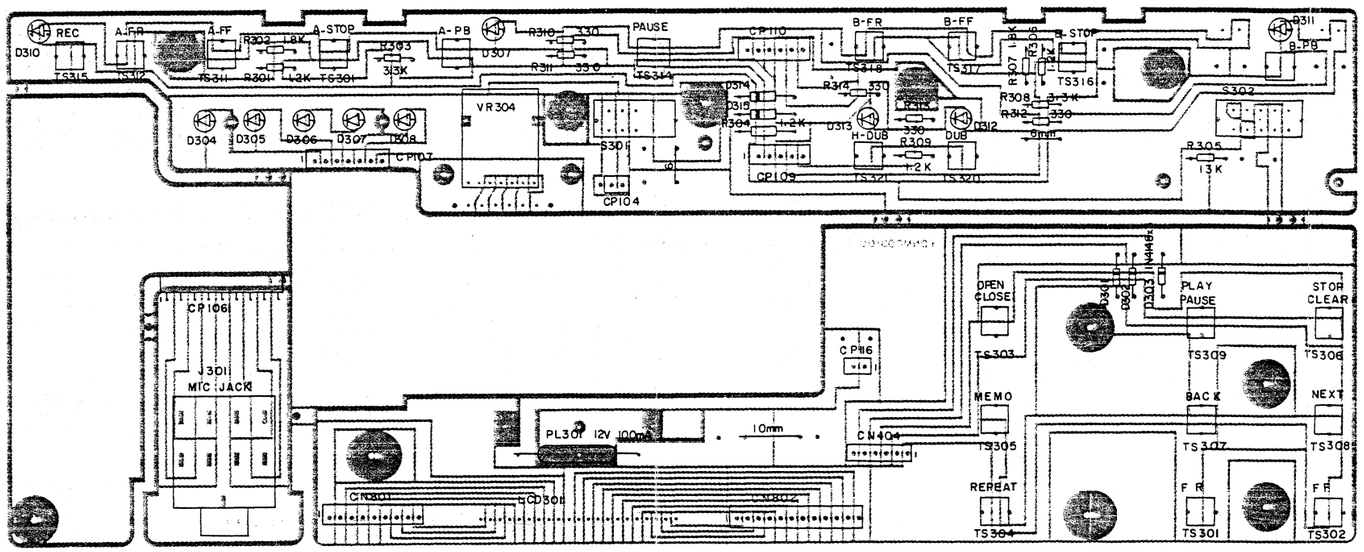


Leiterbahnseite/
Bottom view

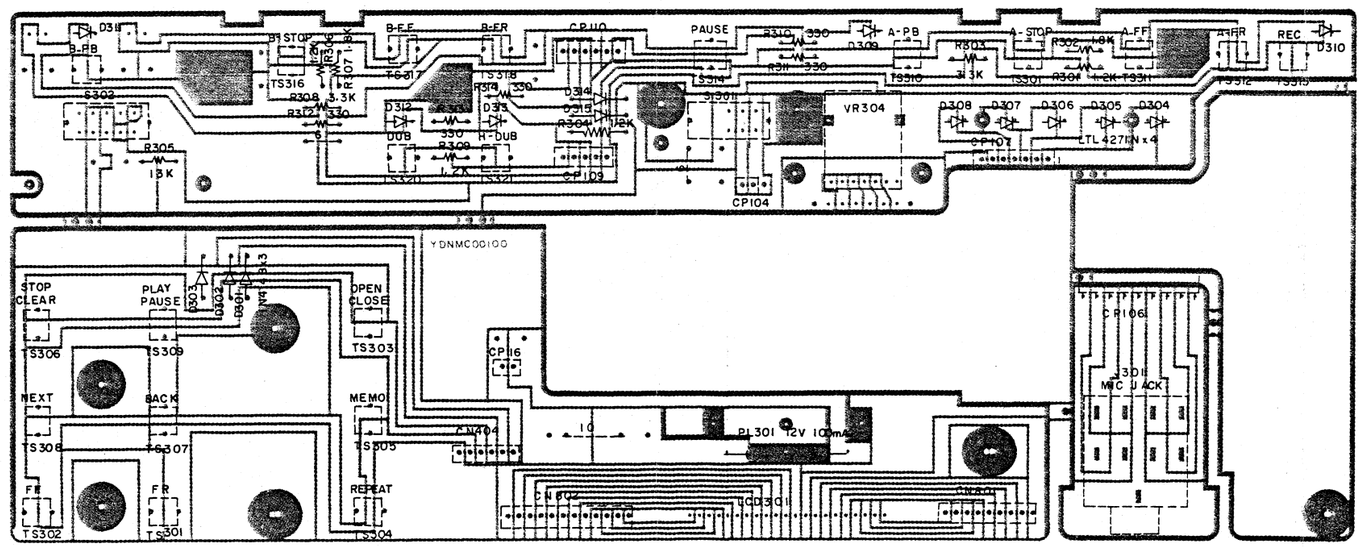


Bedienteilplatine Cassette/CD und Mikrophonbuchse
Tape/CD key P.C.B.

Bestückungsseite/
Top view



Leiterbahnseite/
Bottom view



Ersatzteilliste elektrische Teile MS 100 DC/CD

Spare parts list electrical parts MS 100 DC/CD

Bestell-Nr./ Part. No.	Bezeichnung	Description	Position	Preisgruppe/ Price-key
65 918 00	Hauptplatine (Cassette)	Main P.C.B. assembly		D 7
65 919 00	Platine LED-Treiber	LED driver P.C.B. assembly		B 8
65 920 00	A/W-Platine CFF406 (A)	R/P P.C.B. CFF406		D 1
65 921 00	W-Platine CFF405 (B)	P/A P.C.B. CFF406		C 7
65 922 00	Bedienteilplatine Cassette (1)	Tape key P.C.B.		C 5
65 923 00	Bedienteilplatine CD (2)	CD key P.C.B.		C 5
46 713 00	IC LA 6462 D	IC LA 6462 D	IC 401+403	A 8
48 960 00	IC BU 4066	IC BU 4066	IC 402	A 5
65 924 00	IC UPC 1330 HA	IC UPC 1330 HA	IC 404	B 1
65 925 00	IC CXP 5096 H-0915	IC CXP 5096 H-0915	IC 1011	D 3
48 836 00	IC CXA 1101 P	IC CXA 1101 P	IC 1021	C 2
37 763 00	IC BA 4558	IC BA 4558	IC 1031	A 9
13 558 00	IC LB 1416	IC LB 1416	IC 1041	B 5
65 926 00	IC CXA 1198 AP	IC CXA 1198 AP	IC 1051	C 2
26 101 00	IC TC 4051 BP	IC TC 4051 BP	IC 1061	B 2
40 120 00	IC BA 17805	IC BA 17805	IC 1071	A 9
65 927 00	IC 7908 8 V/1 A	IC 7908 8 V/1 A	IC 1081	A 8
65 928 00	IC 7808 8 V/1 A	IC 7808 8 V/1 A	IC 1091	A 8
65 929 00	Transistor 2 SC 3901	Transistor 2 SC 3901	Q 401-406	A 1
48 843 00	Transistor 2 SC 2060 Q	Transistor 2 SC 2060 Q	Q 407-409	A 2
65 930 00	Transistor 2 SA 1572	Transistor 2 SA 1572	Q 410+411	A 2
48 839 00	Transistor 2 SA 933 SS Small	Transistor 2 SA 933 SS Small	Q 501-505, 1051+1111	A 1
26 795 00	Transistor 2 SC 536-SPA-AC Small	Transistor 2 SC 536-SPA-AC	Q 501–511, 1211+1221	A 2
48 844 00	Transistor 2 SA 934 Q	Transistor 2 SA 934 Q	Q 1011+1031, 1071+1091	A 3
32 762 00	Transistor DTC 114 ES	Transistor DTC 114 ES	Q 1021+1041+1061+1081	A 2
65 931 00	Transistor DTA 114 ES	Transistor DTA 114 ES	Q 1141+1151	A 2
34 691 00	Transistor 2 SC 2878 A	Transistor 2 SC 2878 A	Q 1171+1181+1191+1201	A 3
06 040 00	Zenerdiode ZPD 5,6	Zenerdiode ZPD 5.6	D 401	A 2
11 241 00	Diode 1 N 4148	Diode 1 N 4148	D 3011+3021+3031	A 2
38 502 00	LED rot	LED red		A 3
32 768 00	LED orange	LED orange		A 4
65 932 00	Spule Löschoszillator	Bias osc. coil 4309-653	L 401	A 8
65 933 00	Spule 15 mH	Choke coil 15 mH	L 402/403	A 6
48 391 00	Spule 100 µH	Choke coil 100 µH	L 9011	A 2
46 723 00	Filter Tiefpaß	Bias trap coil N-673-088	L 1011+1021	A 8
37 946 00	Drehwiderstand 470 Ohm	S.F.R. 470 Ohm	SFR 401-404	A 4
37 443 00	Drehwiderstand 10 kB	S.F.R. 10 kB	SFR 407, 1061+1071	A 3
65 934 00	Drehwiderstand Rec. level 50 kB × 2	Rotary 50 kB × 2	VR 3011	B 1
37 444 00	Drehwiderstand 2,2 kOhm	SFR 2.2 kOhm	SFR 1011+1021+1031+1041	A 3
37 441 00	Drehwiderstand 4,7 kOhm	SFR 4.7 kOhm	SFR 1051, 1081	A 3
65 935 00	Lampe 12 V/100 mA	Lamp 12 V/100 mA	PL 3011	A 6
65 891 00	Taster (Tape/CD-Funktionen)	Tact switch	TS 3011+3211	A 2
65 936 00	Schiebeschalter (Dolby, Continuous)	Slide switch	S 3011+3021	A 8
65 937 00	Platine Mikrophonbuchse	Mic jack P.C.B.		B 4
45 390 00	Chinch-Buchsen (6)	6 P RCA jack		B 4

Ersatzteilliste elektrische Teile MS 100 T/AM

Spare parts list electrical parts MS 100 T/AM

Bestell-Nr./ Part. No.	Bezeichnung	Description	Position	Preisgruppe/ Price-key
65 863 00	HF-Platine kpl.	RF P.C.B. assembly		F 5
65 864 00	Platine Power Meter	Spectrum analyzer P.C.B.		F 0
65 865 00	Tonplatine kpl. (Bass, Treble, Loudness)	Tone P.C.B. assembly		C 6
65 866 00	Quellenumschaltungsplatine kpl.	Mixture P.C.B. assembly		D 7
65 867 00	Netzschalterplatine	Power switch P.C.B.		B 5
65 868 00	Netzteilplatine	Power P.C.B.		D 9
65 869 00	Endstufe	Audio P.C.B.		D 9
65 870 00	IC LC 7230-8370	IC LC 7230-8370	IC 101	D 2
65 871 00	IC LA 1851 N	IC LA 1851 N	IC 102	C 2
65 872 00	IC LC 7821	IC LC 7821	IC 103	B 9
46 713 00	IC LA 6462 D	IC LA 6462 D	IC 104	A 8
37 763 00	IC BA 4558	IC BA 4558	IC 101+105+301+703	A 9
40 120 00	IC BA 17805	IC BA 17805	IC 501	A 9
37 390 00	IC BA 10324	IC BA 10324	IIC 701+702	A 9
45 416 00	IC LC 7561 A	IC LC 7561 A	IC 704	D 0
65 873 00	IC STK 4132 II	IC STK 4132 II	IC 802	D 3
12 093 00	Transistor 2 SC 1359 B	Transistor 2 SC 1359 B	Q 101-103	A 3
48 839 00	Transistor 2 SA 933 SS	Transistor 2 SA 933 SS	Q 109, 111	A 1
34 484 00	Transistor 2 SC 1740 SS	Transistor 2 SC 1740 SS	Q 117/118	A 2
13 545 00	Transistor 2 SC 536 F	Transistor 2 SC 536 F	Q div.	A 3
40 663 00	Transistor 2 SA 1318 T	Transistor 2 SA 1318 T	Q 502+503, 508+509	A 2
48 841 00	Transistor 2 SD 2061	Transistor 2 SD 2061	Q 505+511	A 6
48 842 00	Transistor 2 SB 1187 F	Transistor 2 SB 1187 F	Q 506+512	A 7
48 843 00	Transistor 2 SC 2060 Q	Transistor 2 SC 2060 Q	Q 513+514	A 2
48 840 00	Transistor 2 SA 934 Q	Transistor 2 SA 934 Q	Q 515+516	A 3
34 691 00	Transistor 2 SC 2878 A	Transistor 2 SC 2878 A	Q 520+801+802	A 3
38 502 00	LED (Stand-by)	LED (Stand-by)	D 602	A 3
65 875 00	LED (Volumeregler) LTL-3213 A	LED (Volume) LTL-3213 A	Q 511	A 3
22 955 00	Diode SVC 321-C 2	Diode SVC 321-C 2	D 103+105	B 4
65 163 00	Diode 1 N 4531	Diode 1 N 4531	D 112–129, 701–708	A 0
50 338 00	Diode 1 N 4148	Diode 1 N 4148	D 501+512+601+801	A 0
11 239 00	Diode 1 N 4002	Diode 1 N 4002	D 511	A 1
48 847 00	Diode BR 152	Diode BR 152	D 508-509	A 5
65 874 00	Diode RB 201	Diode RB 201	D 510	A 5
06 040 00	Zenerdiode ZPD 5,6	Zenerdiode ZPD 5.6	D 136	A 2
23 214 00	Zenerdiode ZPD 9,1	Zenerdiode ZPD 9.1	D 506+507	A 1
21 750 00	Zenerdiode GZA 13 Y	Zenerdiode GZA 13 Y	D 504+505	A 3
65 876 00	Wurfantenne	Loop antenna		B 6
65 877 00	Ferritantenne	Ant. RF coil	L 104	A 4
65 878 00	Spule MW-Oszillator	MW oscillator coil	L 106	A 4
65 879 00	Spule FM Det	FM Det coil	L 108	A 4
65 880 00	Spule MW ZF, Übertrager	MW IFT coil	L 109	A 4
24 372 00	Spule Filter AM	Filter coil	L 110	A 6
65 881 00	Keramik Filter-FM SFE 10,7 MS 3 K-A	Ceramic filter FM SFE 10.7	CF 101+102	A 5
46 469 00	Filter MW SFZ 450 HL	Filter MW SFZ 450 HL	CF 103	B 1
65 882 00	Resonator CSB 456 F 15	Filter CSB 456 F 15	CF 104	A 6
31 482 00	Quarzkristall 4,5 MHz	X-tal filter 4.5 MHz	X 101	A 8
65 883 00	FM-Tuner kpl.	FM tuner pack	Pack 101	D 6
65 332 00	Sicherungswiderstand 150 Ohm, ¼ W	Fuse resistor 150 Ohm, ¼ W	R 137	A 0
65 884 00	Sicherungswiderstand 22 Ohm, ⅛ W	Fuse resistor 22 Ohm, ⅛ W	R 107	A 1
40 296 00	Sicherungswiderstand 1 Ohm, 1 W	Fuse resistor 1 Ohm, 1 W	R 510	A 3
18 576 00	Sicherungswiderstand 1 Ohm, ¼ W	Fuse resistor 1 Ohm, ¼ W	R 511+521, 522+533	A 2
34 994 00	Sicherungswiderstand 100 Ohm, ½ W	Fuse resistor 100 Ohm, ½ W	R 828	A 2
65 885 00	Sicherungswiderstand 4,7 Ohm, 1 W	Fuse resistor 4.7 Ohm, 1 W	R 823+824	A 2
65 886 00	Volumepoti mit Motor	Rotary VR W/Motor 100 kB × 2	VR 501	C 8
65 887 00	Lampe 12 V/50 mA (Tuner Display)	Lamp 12 V/50 mA	PL 101	A 4
65 888 00	Lampe 12 V/30 mA (Power Meter)	Lamp 12 V/30 mA	L 701+702	A 4
65 889 00	IR-Empfänger SBX 1610-52	R/C Sensor SBX 1610-52		B 7
65 890 00	Netzschalter	AC SW	SW 501	B 1
65 891 00	Taster (Bedienfunktionen)	Tact SW	SW 601-621	A 2
65 892 00	Druckschalter (Loudness) SP EA 12	Push SW (Loudness)	SW 620	B 1
65 893 00	Klemm-Buchsen-Wurfantenne (2)	AM Ant jack	J 101	A 6
48 871 00	Cinch-Buchsen (4)	4 P RCA jack	J 202	B 0
45 390 00	Cinch-Buchsen (6)	6 P RCA jack	J 201	B 4
65 894 00	Klinkenbuchse Kopfhörer	Head phone	J 501	B 0
48 872 00	Klemm-Buchsen LS (4)	SP jack	J 602	A 9
65 895 00	Netztrafo	Power transformer	B 31	E 2

Abgleich Tuner
Alignment Procedure

GENERAL ALIGNMENT

1. Signal input must be kept as low as possible to avoid overload and clipping.
   (Use highest possible sensitivity of output indicator.)
2. Signal input should be kept as low as possible to avoid A.G.C. action.
   (Set output indicator to highest sensitivity.)
3. Maker insertion and amplitude should not distort the oscillator and amplitude
   Should not distort the oscilloscope trace.
4. Standard modulation is 400 Hz.

INSTRUMENTS REQUIRED

Signal source

AM signal generator

. Radio sweep generator

Sweep oscilloscope

Output indicators

* AC millivolt meter*

Oscilloscope

STEP	CONNECT SIGNAL SOURCE TO-	CONNECT OUTPUT INDICATOR-	SET SIGNAL OR INSERT MARKER	SET RADIO DIAL TO-	ADJUST	ADJUST FOR-
1	Set function selector switch on the front panel to "MW" position.					
2.	Sweep generator connected to a loop or short Piece of wire Placed near AM antenna.	Sweep oscilloscope connected to wire pin of the C 43 of C 44 and volume to mzximum	See amplitude of 450 KHz	Quiet point on band near 522 KHz.	L109	Ampltude of filter
3.	Signal generat- or connected to a loop.	AC millivolt meter and oscilloscope connected across spraker	522 KHz	522KHz	AM OSC L106	maximum
4			1611KHz	1611KHz		
5			603KHz	603KHz	AM LOOP ANT COIL	
6			1404 KHz	1404 KHz	RF Trimmer	
7	Repeat step 3 through 6 necessary to obtain maximum sensitivity on station.					

Abgleich Tuner
Alignment Procedure

2

FM

GENERAL ALIGNMENT CONDITION

1.Signal input must be kept as low as possible to avoid ocerload clipping.
(Use highest possitivity of output indicator).
2.Makers must be accurate (crystal controlled or calibrated). The 10.7 MHz marker used in each section of the FM alignment must be the same.
3.Signal input should be kept as low as possible to avoid A.G.C. action
(Set output indicator to highest sensitivity).
4.FM signal generator RF output frequency must be monitoring.
5.Standard modulation is 1 KHz (40KHz).

INSTRUMENTS REQUIRED.

Signal sources
FM signal generator
*Radio sweep generator *
Sweep oscilloscope
Frequency counter

Output indicators
AC millivolt meter
Oscilloscope
114 KHz signal generator

STEP	CONNECT SIGNAL SOURCE TO-	CONNECT OUTPUT INDICATOR TO-	SET SIGNAL OR INSERT MARKER	SET RADIO DIAL TO	ADJUST	ADJUST FOR-
1.Set function selector switch on the front panel to "FM" Position.						
2	Radio sweep generator connect to FM front ent tuner pin 3	Oscilloscope connected to wire pin of the C43 of C44 and volume VR to maximum	10.6 10.7 10.8MHz marker	Quiet Scale pointer on band	L108	Straightness and symmetry of "S" curve with 10.7 MHz makerd at zero crossover

Abgleich Tuner
Alignment Procedure

3
MPX

GENERAL ALIGNMENT CONDITION

1.Adjust FM signal generator output to 1mV(60dB) with MPX modulation 1 KHz
Deviation=33.75 KHz Pliot=6 KHz

INSTRUMENTS REQUIRED

Signal source

FM signal gererator
Stereo signal generator

Output indicator

Frequency counter
AC millivolt meter
Oscilloscope

STEP	CONNECT SIGNAL SOURCE TO-	CONNECT OUTPUT INDICATOR TO-	SET SIGNAL	SET RADIO DIAL	ADJUST	ADJUST FOR-
1	Set function selector switch on the front panel to "FM STEREO" Position.					
2	FM signal generator connected to FM aerial	Frequency counter connect to MPX test point	98 MHz and modulation off, pilot signal off too	98 MHz		19.00 KHz + / -50 Hz
3	FM signal generator connected to FM aerial	Cnnect to Scope of 2 CH	98MKz and Modulation 40KHz pilot 6KHz 1KHz Signal	98MKz	SFR101	The L and R More better Seprationg

Abgleichanweisung Cassette
Alignment procedure cassette

Tape position Recorderstellung	Input signal Eingangsspannung	Test tape Testcassette	Measuring instrument Meßgerät	Testpoint Meßpunkt	Adjustment location Abgleichpunkt	Measuring signal Meßsignal

1. Head azimuth/A/W-Kopf-Einstellung

PLAYBACK		MTT-114 N 10 kHz	V.T.V.M AC-Millivoltmeter	Tape out	Azimuth screw	NF-max.

2. Tape speed/Geschwindigkeit

PLAYBACK LOW		MTT- 111 N 3000 Hz	FREQUENCY COUNTER	Tape out	TAPE A SFR 1011 TAPE B SFR 1031	3000– 3020 Hz
PLAYBACK HIGH		MTT-111 N 3000 Hz	Frequenz- zähler	Tape out	TAPE A SFR 1021 TAPE B SFR 1041	6000– 6060 Hz

3. Dolby level/Dolby-Pegel

PLAYBACK		MTT-150 DOLBY TAPE 400 Hz	V. T. V. M AC-Millivoltmeter	TP 5 L u. R	TAPE A SFR 403 SFR 404 TAPE B SFR 401 SFR 402	245 mV ≙ 0 dB

4. Level meter/Anzeige

RECORD	AUX IN 400 Hz/400 mV	AC 513 IEC-II	V. T. V. M AC Millivoltmeter	Rec VR to 245 mV TP 5 R u. L mit Rec VR an TP 5 L u. R 245 mV einstellen	SFR 1081 4 YELLOW LED LIGHT SFR 1081 so abgleichen, daß 4 gelbe LED's brennen

5. OSC coil frequency/Oszillator-Frequenz

RECORD		AC 513 IEC-II	FREQUENCY COUNTER Frequenzzähler	ERASE HEAD Löschkopf	L 401	125 kHz

6. Head bias level/Vormagnetisierung

RECORD		AC 212 IEC-I	V. T. V. M AC Millivoltmeter	R/P Head AW-Kopf	SFR 407	42 mV
		AC 513 IEC-II			SFR 405 SFR 406	70 mV

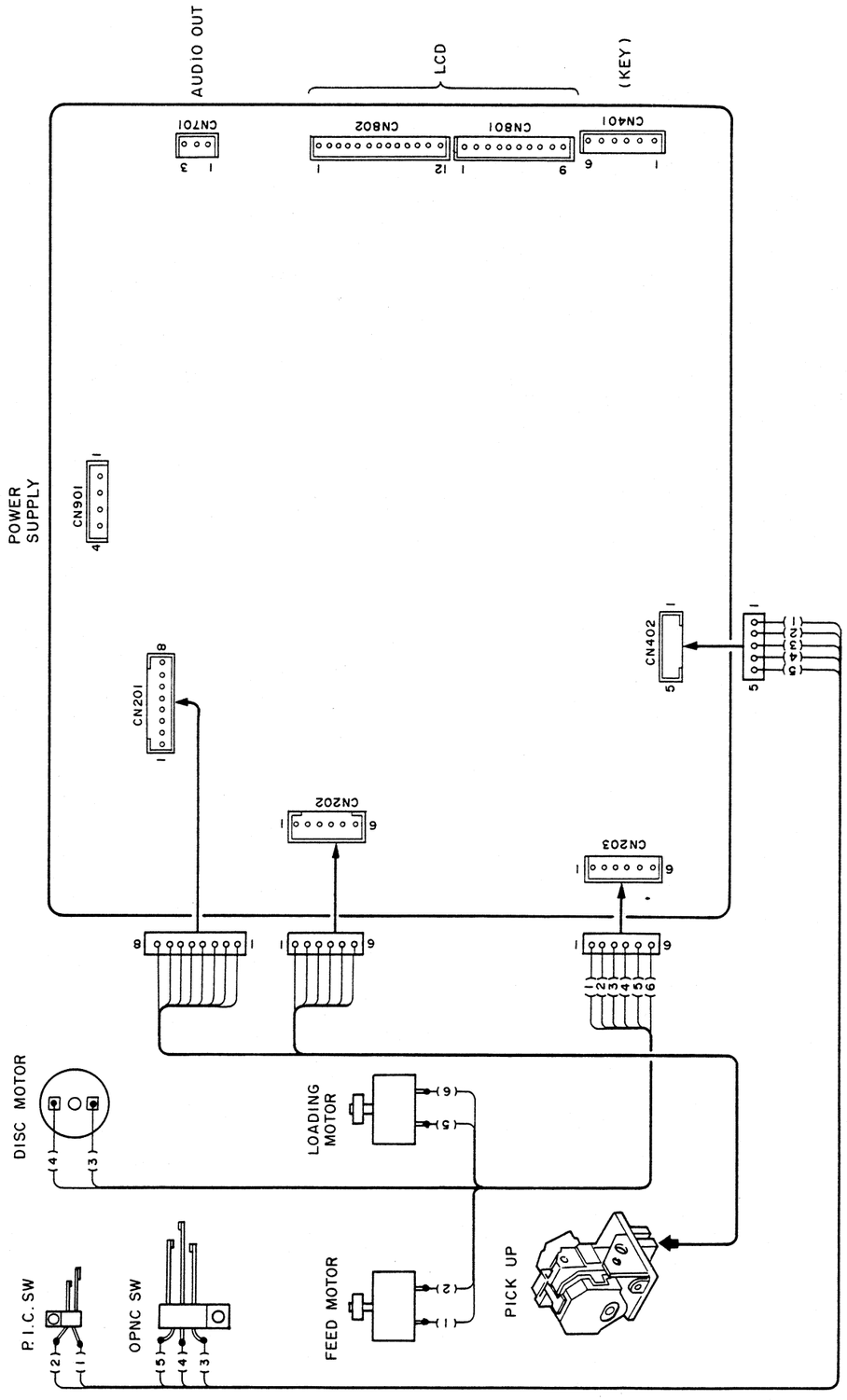
7. Record level/Aufnahmepegel

RECORD	AUX IN 400 Hz, 130 mV ≙ –10 dB	AC 212 IEC-I	V. T. V. M AC Millivoltmeter	TP 5 L u. R (78 mV)	SFR 1061	Pegel darf zwischen Aufnahme und Wiedergabe um ± 1 dB schwanken
		AC 513 IEC-II			SFR 1071	

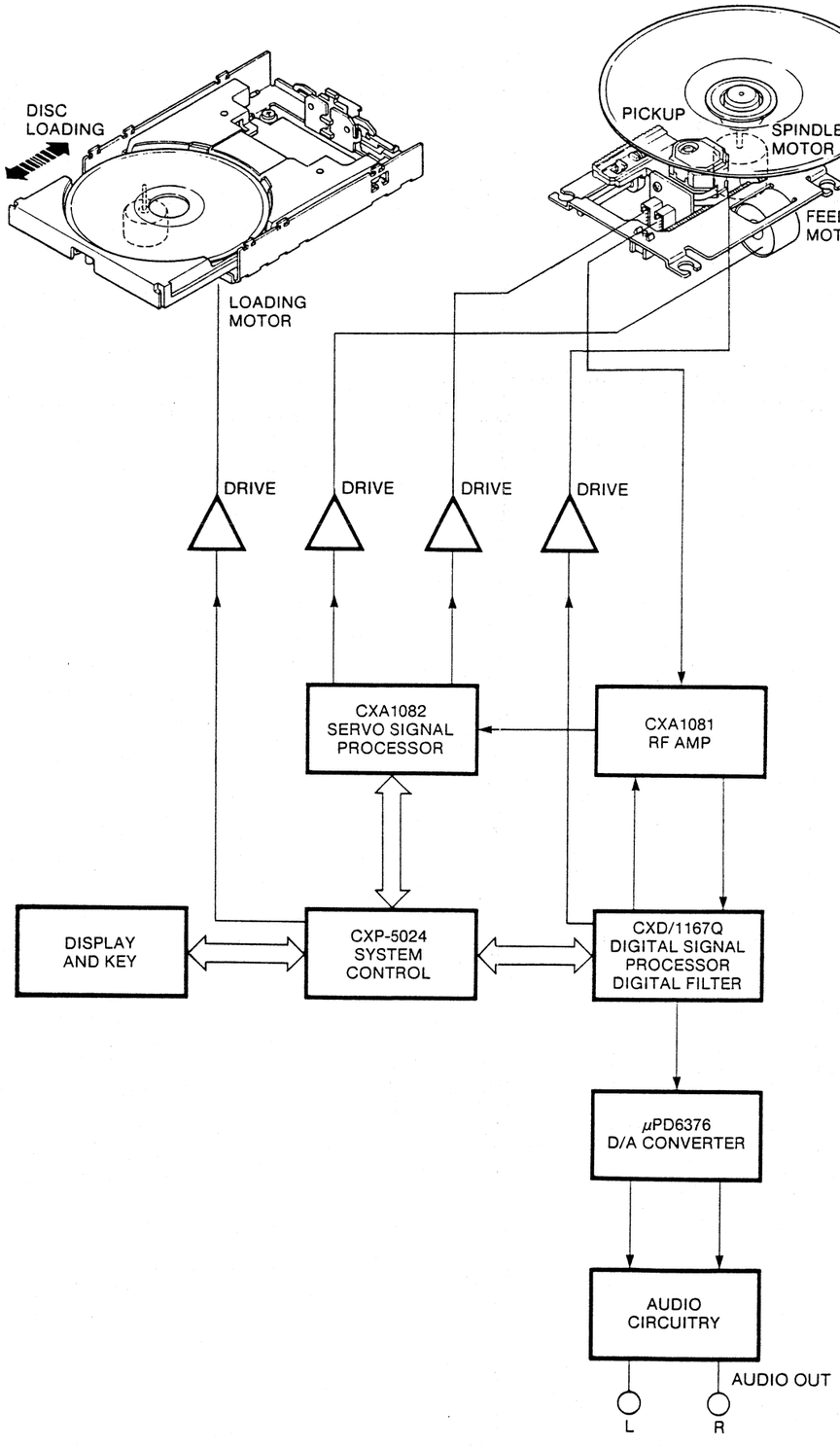
Löschspannung: FE ca. 60 Vss
CR ca. 100 Vss

Vormagnetisierung: FE ca. 27 Vss
CR ca. 46 Vss

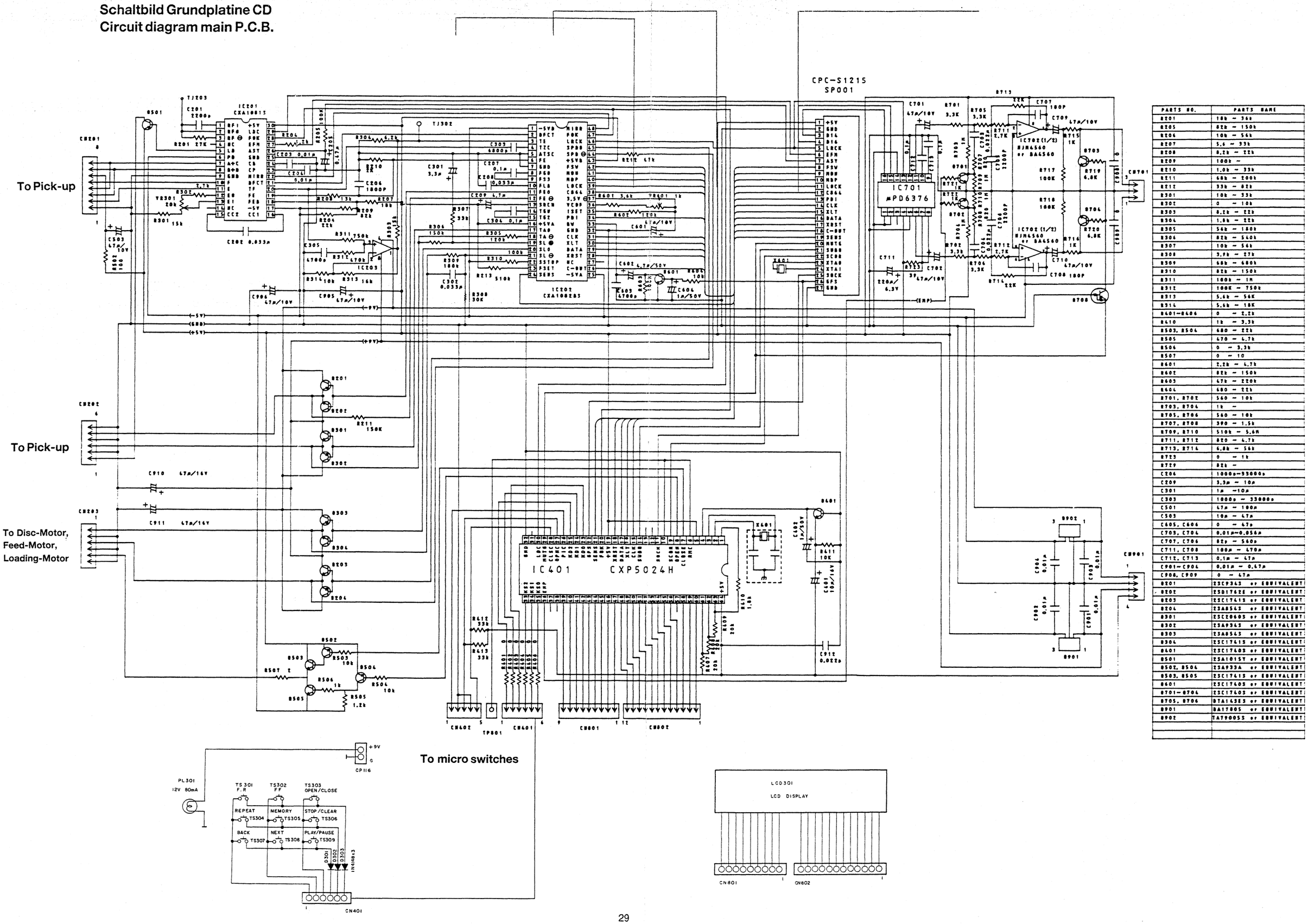
Verdrahtungsplan CD
Wiring diagram



Blockschaltbild CD
Block diagram CD

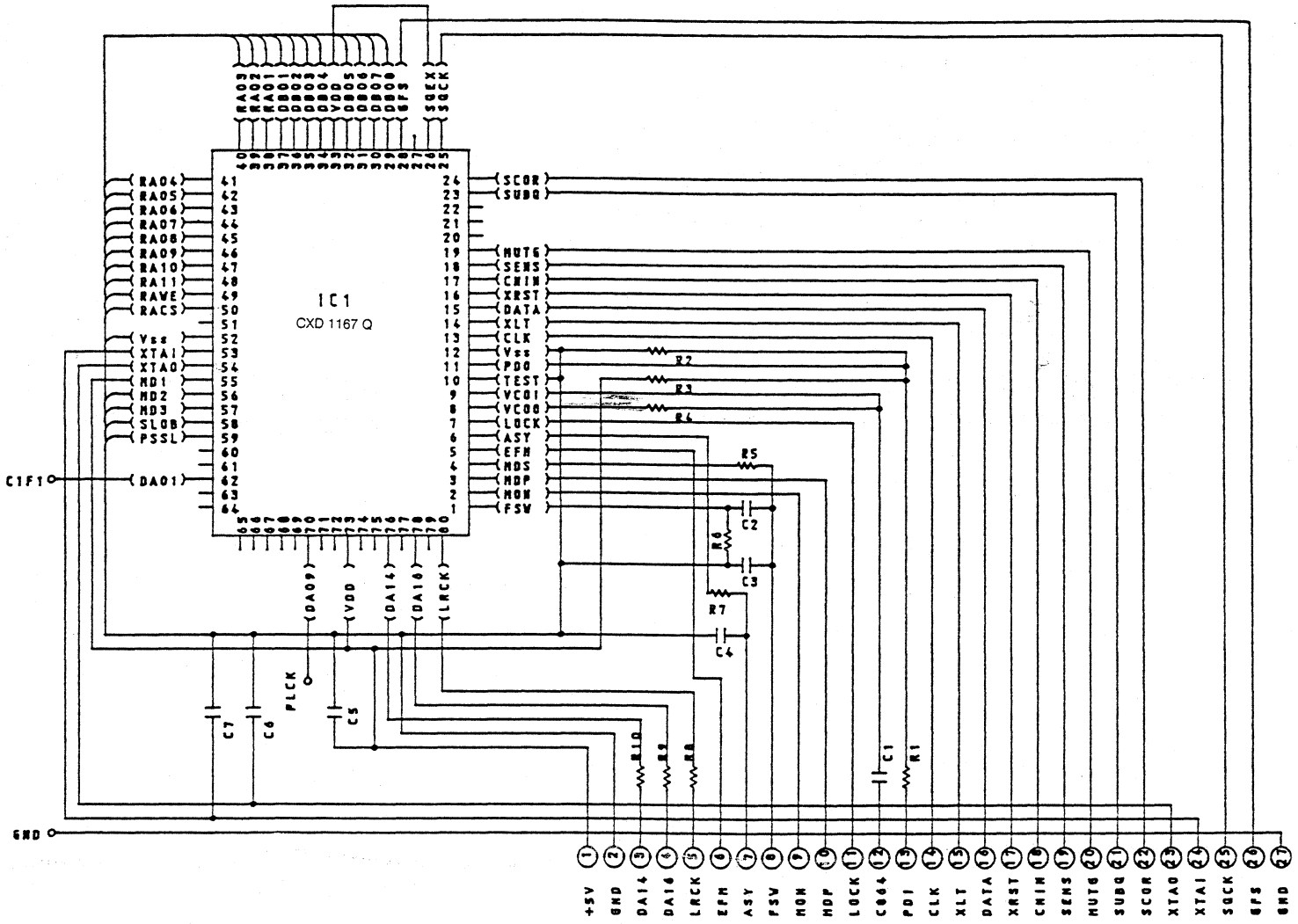


Schaltbild Grundplatine CD
Circuit diagram main P.C.B.



PARTS NO.	PARTS NAME
R201	18k ~ 56k
R205	82k ~ 150k
R206	10k ~ 56k
R207	5.6 ~ 33k
R208	8.2k ~ 22k
R209	100k ~
R210	1.0k ~ 33k
R211	68k ~ 200k
R212	33k ~ 82k
R301	10k ~ 33k
R302	0 ~ 10k
R303	8.2k ~ 22k
R304	1.0k ~ 22k
R305	56k ~ 180k
R306	82k ~ 560k
R307	10k ~ 56k
R308	3.9k ~ 27k
R309	68k ~ 680k
R310	82k ~ 150k
R311	100k ~ 1M
R312	100K ~ 750k
R313	5.6k ~ 56K
R314	5.6k ~ 18K
R401~R406	0 ~ 2.2k
R410	1k ~ 3.3k
R503, R504	680 ~ 22k
R505	470 ~ 4.7k
R506	0 ~ 3.3k
R507	0 ~ 10
R601	2.2k ~ 4.7k
R602	82k ~ 150k
R603	47k ~ 220k
R604	680 ~ 22k
R701, R702	560 ~ 10k
R703, R704	1k ~
R705, R706	560 ~ 10k
R707, R708	390 ~ 1.5k
R709, R710	510k ~ 5.6M
R711, R712	820 ~ 4.7k
R713, R714	6.8k ~ 56k
R723	0 ~ 1k
R729	82k ~
C206	1000p~33000p
C209	3.3μ ~ 10μ
C301	1μ ~10μ
C303	1000p ~ 33000p
C501	47μ ~ 100μ
C503	10μ ~ 47μ
C605, C606	0 ~ 47p
C703, C704	0.01μ~0.056μ
C707, C706	82p ~ 560p
C711, C708	100μ ~ 470μ
C712, C713	0.1μ ~ 47μ
C901~C904	0.01μ ~ 0.47μ
C908, C909	0 ~ 47μ
D201	2SC9345 or EQUIVALENT
D202	2SD1762E or EQUIVALENT
D203	2SC17413 or EQUIVALENT
D204	2SA8545 or EQUIVALENT
D301	2SC20603 or EQUIVALENT
D302	2SA9345 or EQUIVALENT
D303	2SA8545 or EQUIVALENT
D304	2SC17413 or EQUIVALENT
D401	2SC17403 or EQUIVALENT
D501	2SA1015Y or EQUIVALENT
D502, D504	2SA933A or EQUIVALENT
D503, D505	2SC17413 or EQUIVALENT
D601	2SC17403 or EQUIVALENT
D701~D704	2SC17403 or EQUIVALENT
D705, D706	DTA143E3 or EQUIVALENT
D901	BA17805 or EQUIVALENT
D902	TA79005S or EQUIVALENT

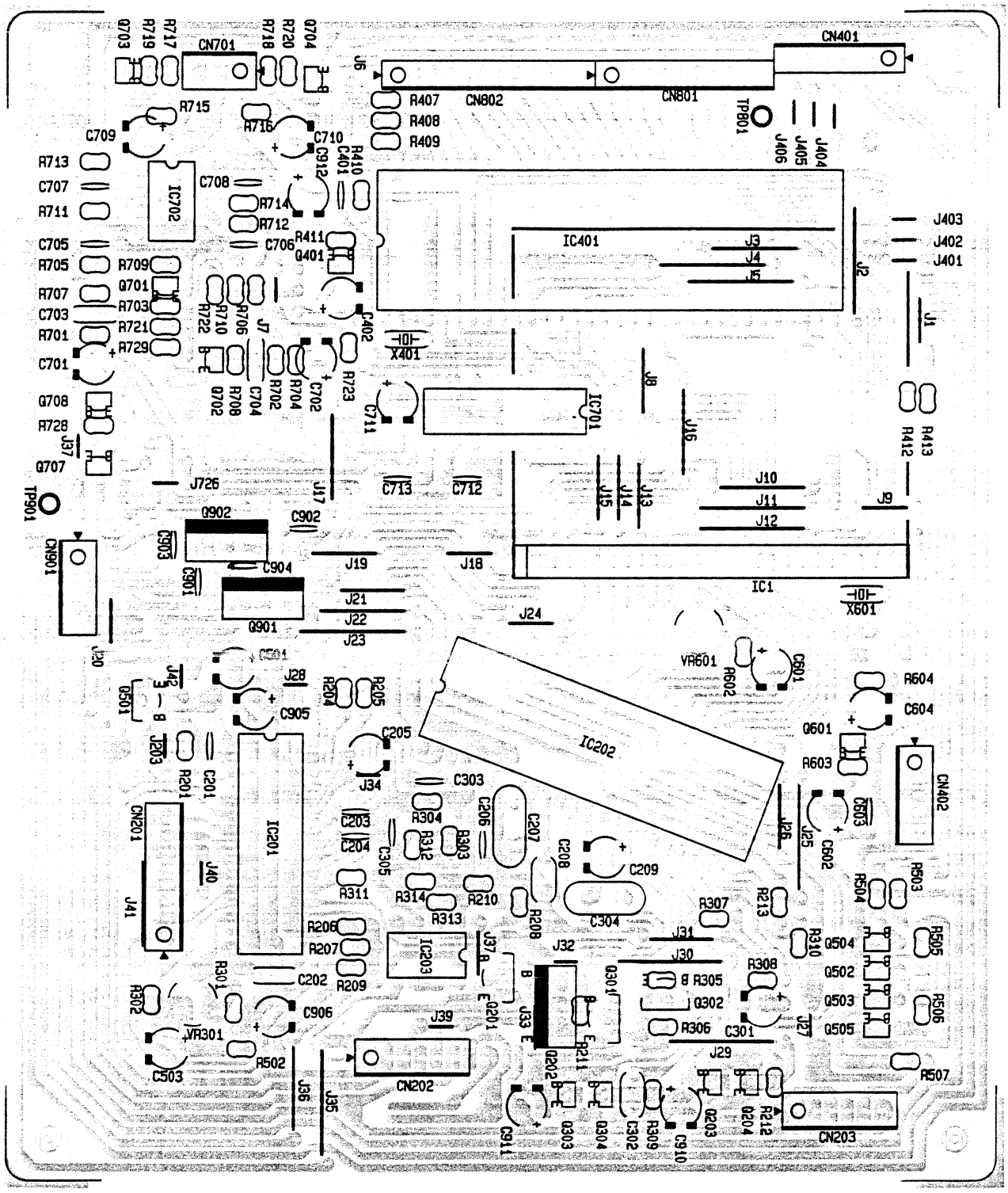
Schaltbild IC-Zusatzplatine CD
Circuit diagram sub P.C.B.



R1	6.8K	~ 22K	10K	Ω
R2	82K	~ 120K	100K	Ω
R3	82K	~ 120K	100K	Ω
R4	82K	~ 120K	100K	Ω
R5	8.2K	~ 47K	20K	Ω
R6	820K	~ 3.9M	1M	Ω
R7	6.8K	~ 27K	11K	Ω
R8	0	~ 3.9K	1K	Ω
R9	0	~ 3.9K	1K	Ω
R10	0	~ 3.9K	1K	Ω
C1	680P	~ 2200P	1000P	F
C2	0.1μ	~ 0.82μ	0.47μ	F
C3	2700P	~ 0.033μ	6800P	F
C4	1000P	~ 0.1μ	0.01μ	F
C5	0.01μ	~ 0.47μ	0.1μ	F
C6	10P	~ 100P	33P	F
C7	10P	~ 100P	33P	F

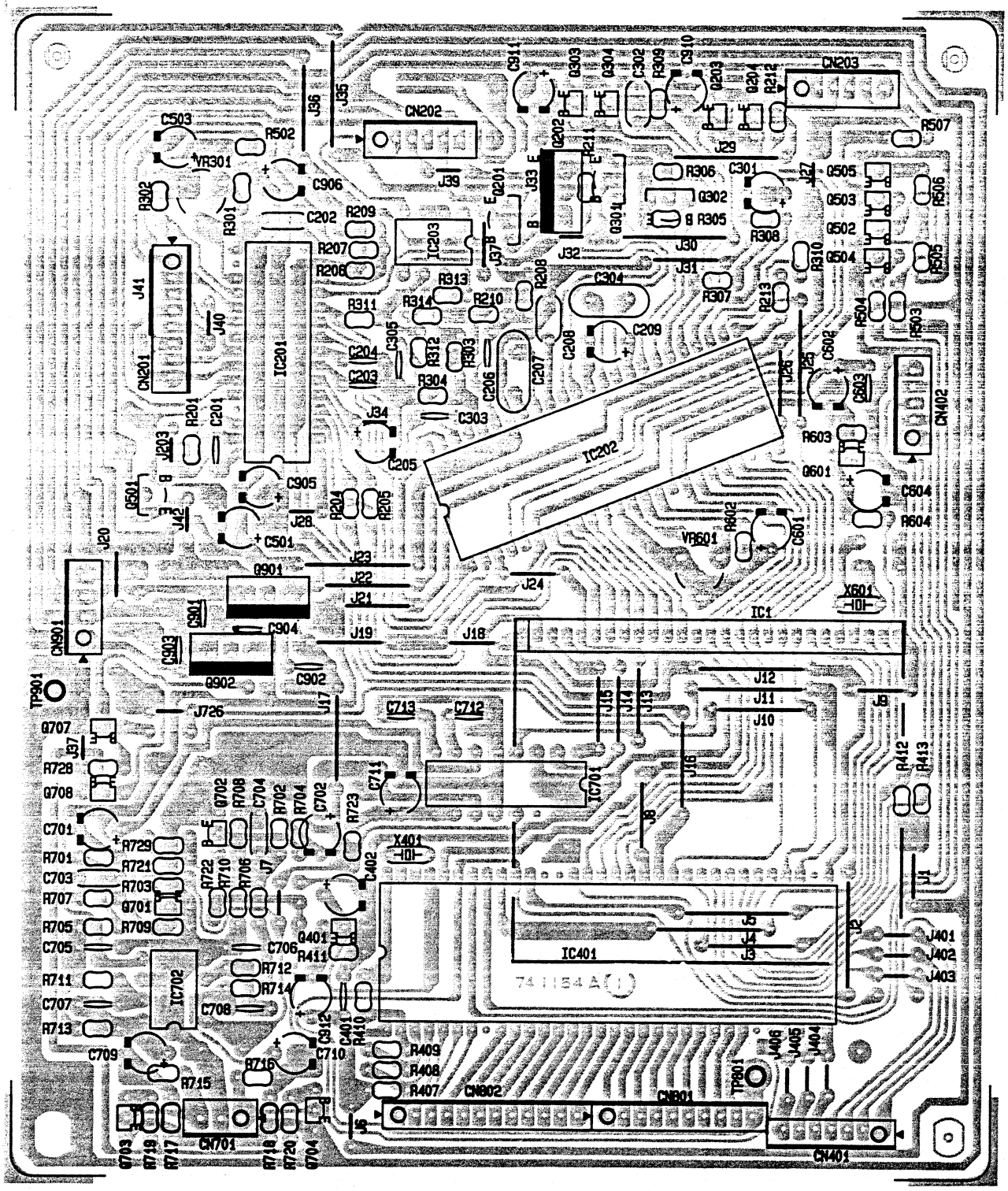
Grundplatine CD
Main P.C.B.

Bestückungsseite/top view



Grundplatine CD
Main P.C.B.

Leiterbahnseite/bottom view



Abgleichsanweisung CD-Spieler

Benötigte Meßgeräte: Frequenzzähler
Test-CD Phillips 5A
Oszilloskop

VCO-Frequenzabgleich

Dieser Abgleich kann ohne CD-Platte durchgeführt werden.

1. Frequenzzähler an Testpunkt VCO und Masse anschließen.
2. Pin 7 der IC-Zusatzplatine mit Masse verbinden.
3. Gerät einschalten.
4. Mit Poti VR 601 Frequenz auf 4,370 MHz ± 50 kHz abgleichen.
5. Kurzschlußbrücke an Pin 7 der IC-Zusatzplatine wieder entfernen.

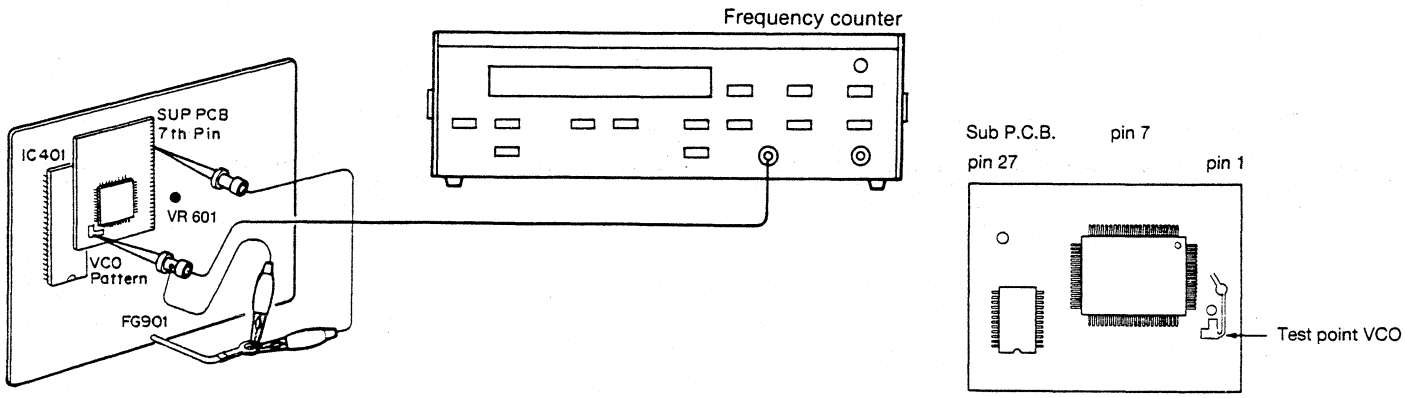
Alignment procedure CD player

Instruments required: Frequency counter
Test disc Phillips 5A
Oscilloscope

VCO frequency adjustment

This VCO frequency adjustment does not need a CD disc.

1. Connect the frequency counter to test point (VCO) and to ground.
2. Connect the Sub P.C.B. 7th pin to GND wire.
3. Set the unit power on.
4. Adjust VR 601 to 4,370 MHz ± 50 kHz.
5. Resolder (Pin 7 in Sub P.C.B. and GND).

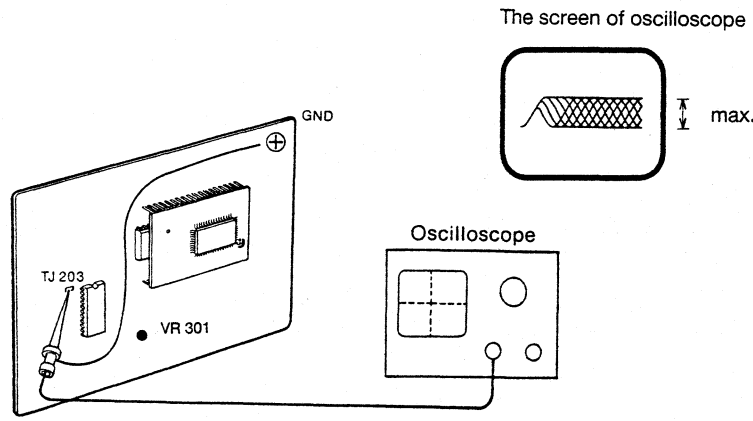


EF-Balance-Abgleich

1. CD-Platte einlegen und »PLAY«-Taste drücken.
2. Oszilloskop an Testpunkt TJ 203 und Masse anschließen.
3. HF-Signal mit VR 301 auf Maximum abgleichen.

EF-Balance adjustment

1. Load a disc and play back.
2. Connect an oscilloscope to the test points TJ 203 and ground.
3. Adjust VR 301 so that the HF-Signal becomes maximum.



Mit der Test-CD Philips 5 A beträgt die Höhe des HF-Signals ca. 1,5 V_{ss}.

With the Test-CD Philips 5 A is the height of the HF-Signal about 1,5 V_{pp}.

IC und Transistor Spannungstabelle CD
IC and transistor voltage assertions

Pin No. DC	E	C	B
Q201	0.0	-9.0	-0.6
Q202	0.0	9.0	-0.6
Q203	0.0	9.0	-0.6
Q204	0.0	-9.0	-0.6
Q301	0.0	9.0	0.6
Q302	0.0	-9.0	0.6
Q303	0.0	-9.0	0.6
Q304	0.0	9.0	0.6
Q401	0.0	5.3	0.0
Q501	5.0	0.8	4.7
Q502	5.0	-0.5	5.0
Q503	0.0	5.0	-0.6
Q504	5.0	-5.0	5.0
Q505	-5.0	0.0	-5.0
Q601	0.0	0.0	0.0
Q701	0.0	0.0	-4.9
Q702	0.0	0.0	-4.9
Q703	0.0	0.0	-0.6
Q704	0.0	0.0	-0.6

Pin No. DC	IN	GND	OUT
Q708	4.8	0.0	-0.6
Q901	9.0	0.0	5.0
Q902	-9.0	0.0	-5.0

IC201

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
DC	0.0	0.0	0.0	0.0	4.6	-5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.1
Pin No.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
DC	1.2	-5.0	0.3	0.3	0.0	-4.2	0.0	-3.4	0.0	0.0	2.5	2.4	0.1	5.0	5.0

IC202

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
DC	-5.0	-4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.6	0.0	0.5	0.0	0.0
Pin No.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
DC	5.0	0.6	0.0	0.0	0.6	0.0	-4.9	-4.0	0.1	-5.0	0.1	5.0	5.0	0.0	5.0
Pin No.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
DC	5.0	0.0	2.8	2.8	2.3	2.3	3.5	2.2	0.0	0.0	0.0	0.0	5.0	0.0	-0.6
Pin No.	46	47	48												
DC	2.5	0.1	0.0												

IC203

Pin No.	1	2	3	4	5	6	7	8
DC	0.0	0.0	0.0	-5.0	-	-	-	5.0

IC401

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
DC	0.0	2.2	2.2	5.3	5.0	0.6	5.0	5.0	0.0	0.6	5.0	0.0	0.0	0.0	5.0
Pin No.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
DC	5.0	0.0	5.0	5.0	0.1	0.1	0.0	5.0	5.0	5.0	5.0	5.0	0.0	4.8	5.0
Pin No.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
DC	0.0	0.0	5.0	5.0	5.0	0.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Pin No.	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
DC	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
Pin No.	61	62	63	64											
DC	3.4	1.8	0.2	5.0											

IC701

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
DC	0.0	0.0	0.0	5.0	0.0	1.5	4.8	4.8	2.1	2.1	1.5	0.0	2.5	0.0	0.0
Pin No.	16														
DC	2.4														

IC702

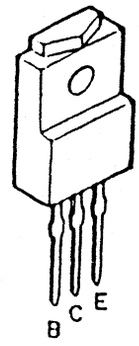
Pin No.	1	2	3	4	5	6	7	8
DC	0.0	0.0	0.0	-5.0	0.0	0.0	0.0	5.0

SP001

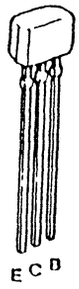
Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
DC	5.0	0.0	2.4	0.0	2.5	2.5	2.5	0.0	0.0	0.0	0.0	2.2	2.8	5.0	0.0
Pin No.	16	17	18	19	20	21	22	23	24	25	26	27			
DC	0.0	5.0	5.0	0.1	4.8	0.0	0.0	2.4	2.4	5.0	0.0	0.0			

Transistor Pin-Belegung CD
Transistor pin location

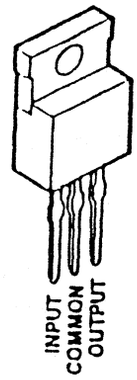
DTA143ES Q705,708



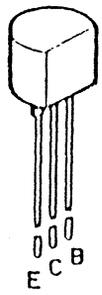
2SD1762 Q202



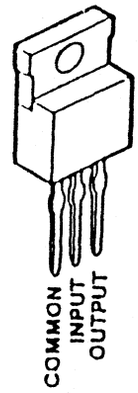
2SA933	Q502,504
2SA854	Q204,303
2SC1740	Q401,601,701,702 Q703,704
2SC1741	Q203,304,503,505



BA17805 Q901

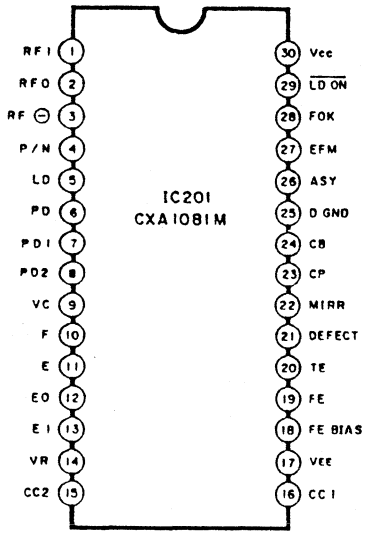


2SA1015-Y	Q501
2SA934	Q201,302
2SC2060	Q301



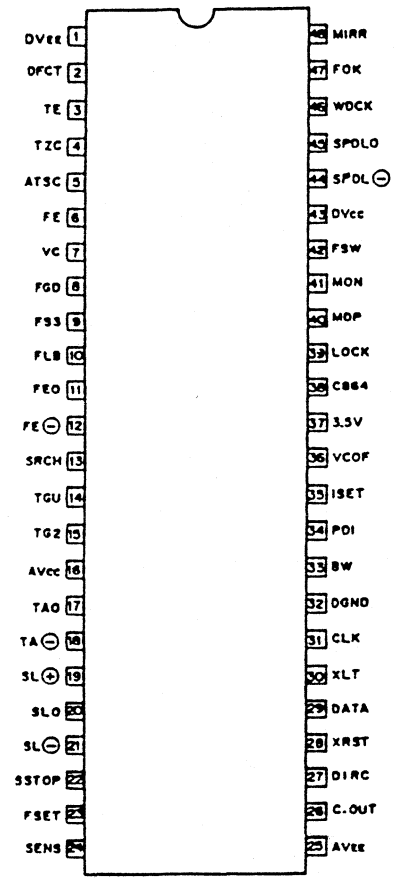
TA79005S Q902

IC Pin-Belegung
IC pin location

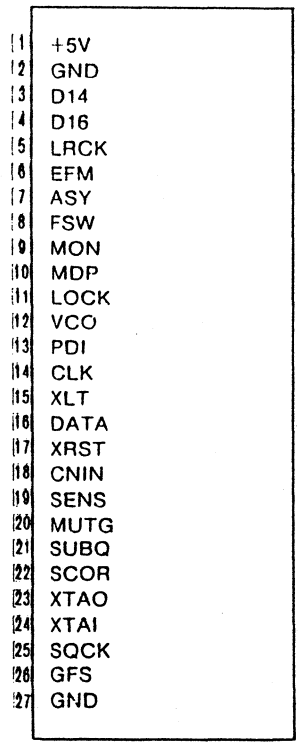


IC202

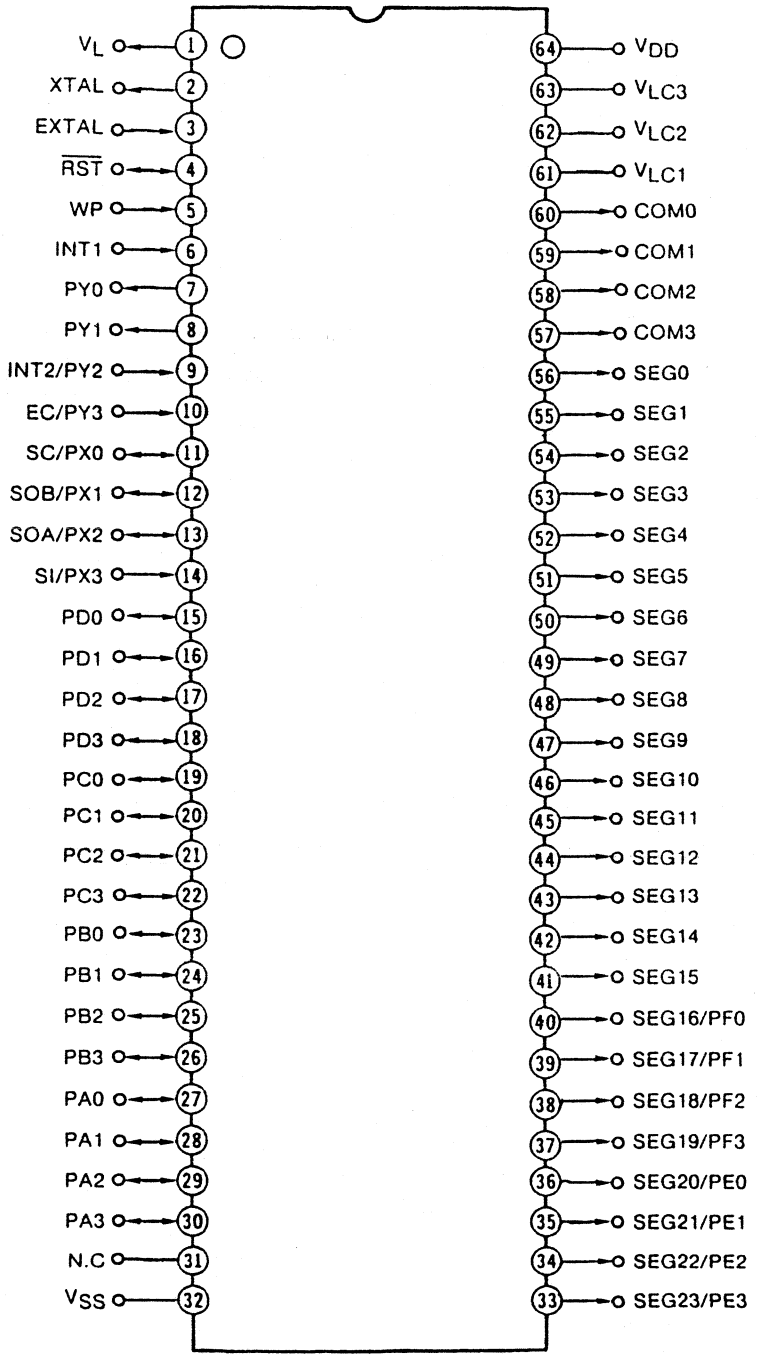
CXA1082BS



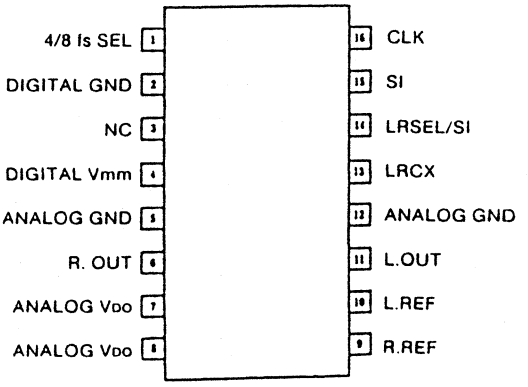
SP001 CPC-S1214



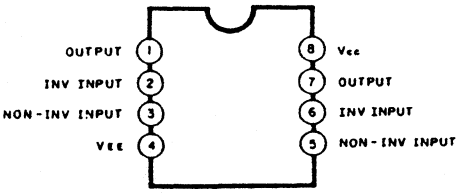
IC Pin-Belegung
IC pin location



IC401 CXP5024H



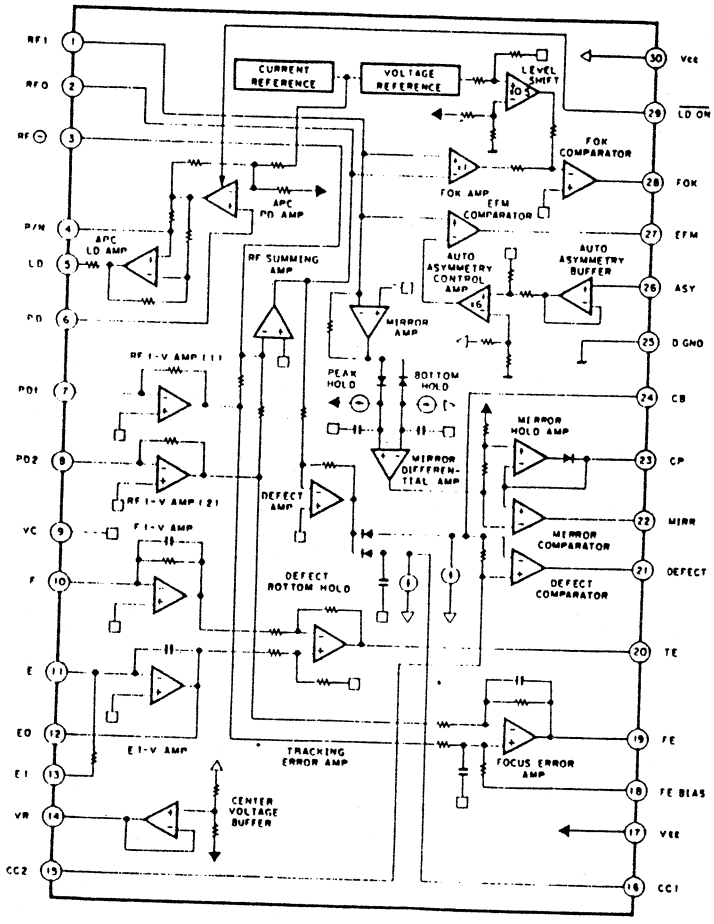
IC701 μPD6376



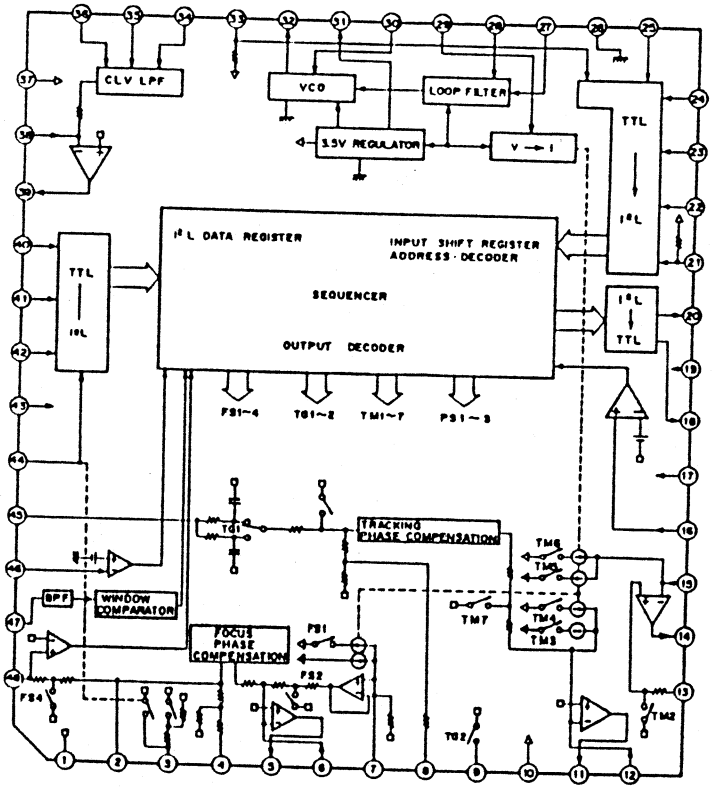
IC702 BA4560

IC Blockschaltbilder
IC block diagrams

IC 201 CXA1081

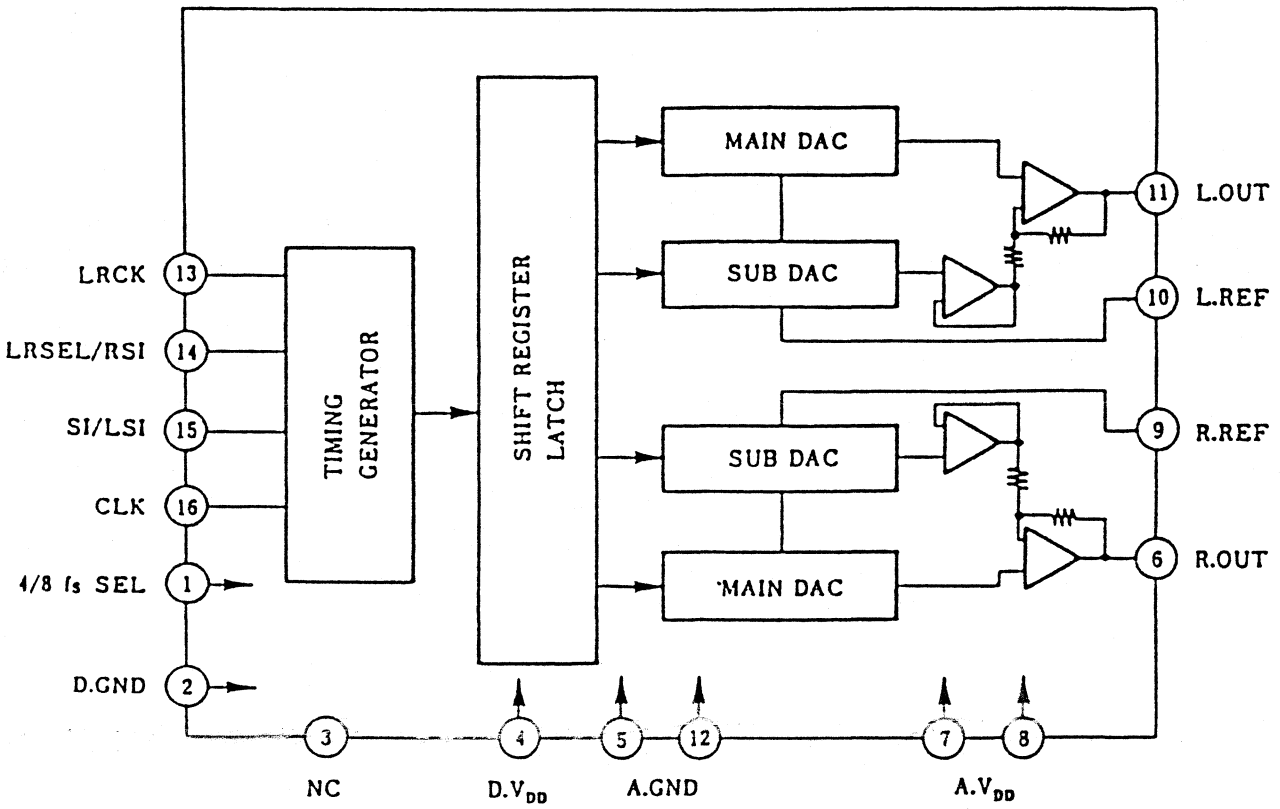


IC202 CXA1082

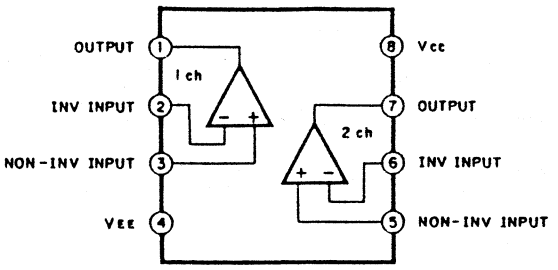


IC Blockschaltbilder
IC Block diagrams

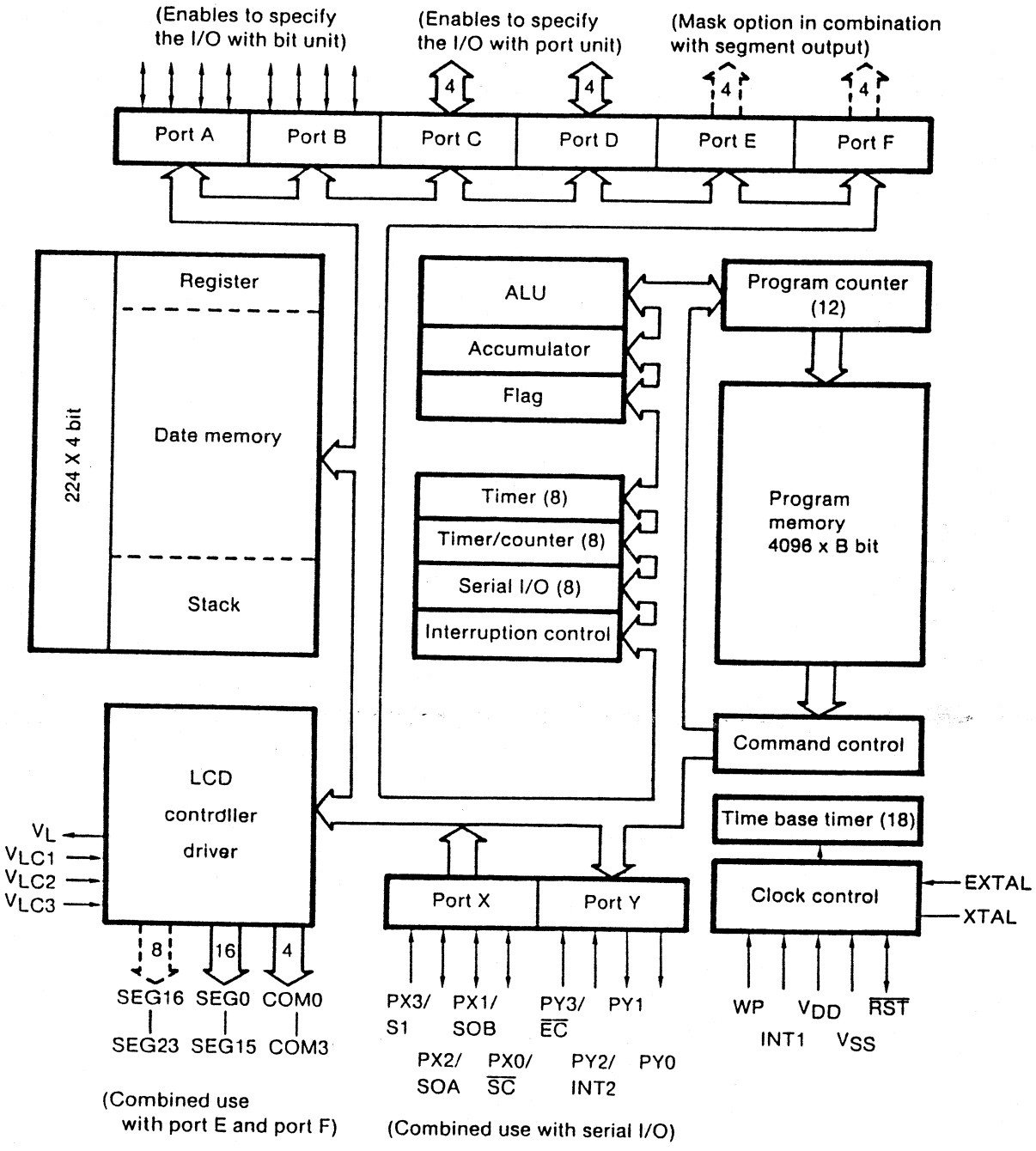
IC701 μPD6376



IC702 BA4560

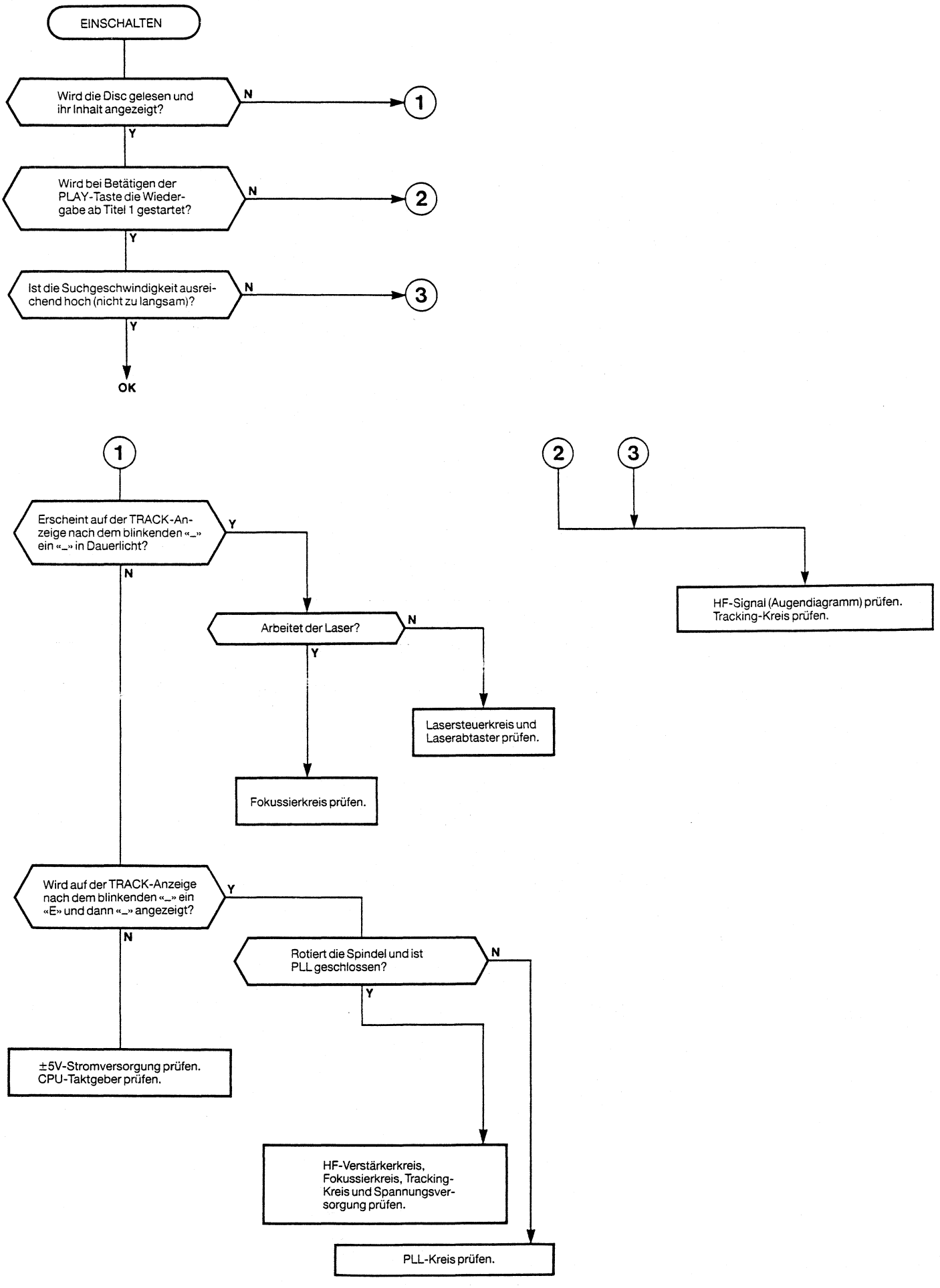


IC Blockschaltbilder
IC Block diagrams

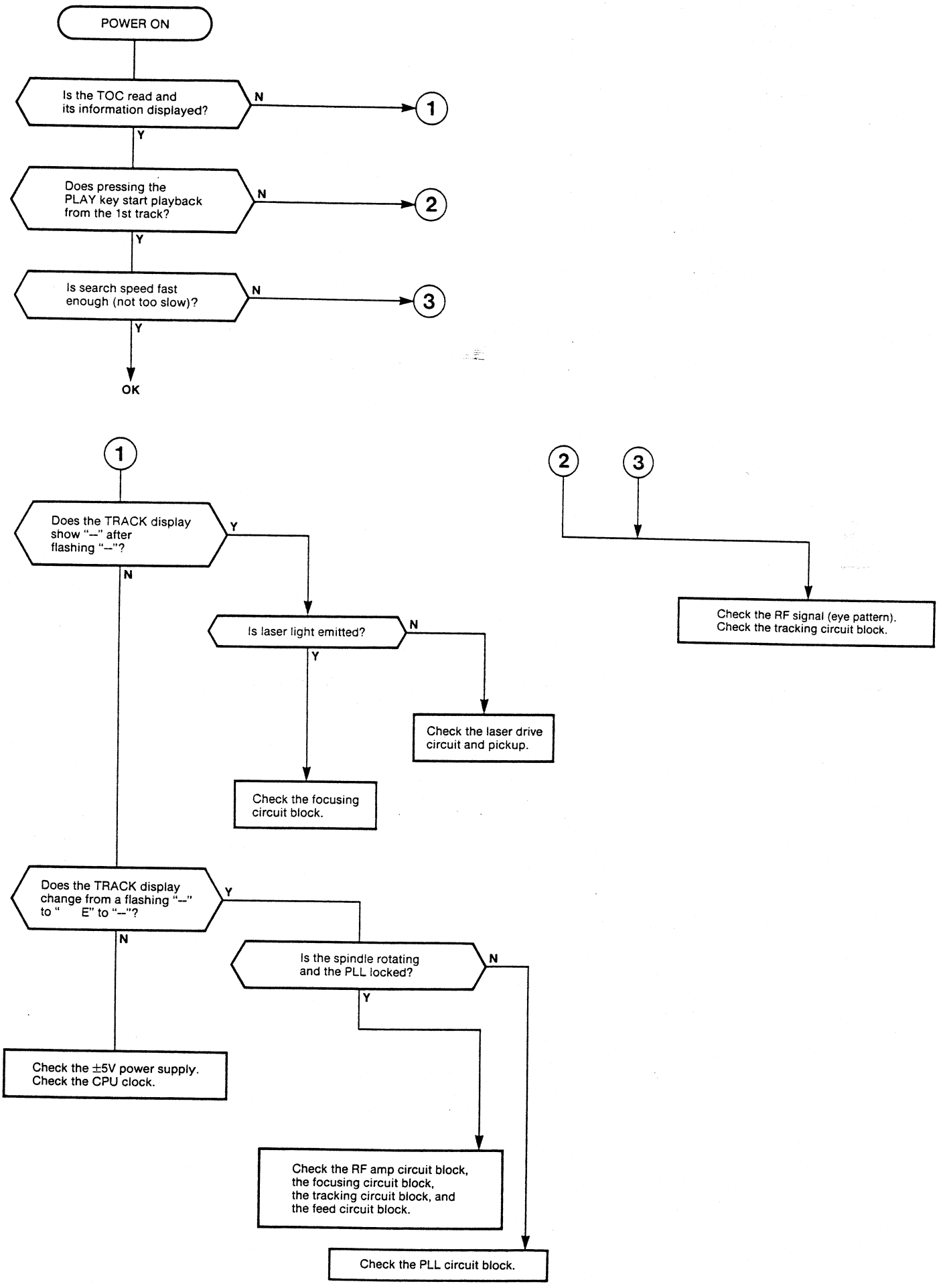


IC401 CXP5024H

Fehlersuchdiagramm CD-Player



Troubleshooting Flowchart CD player



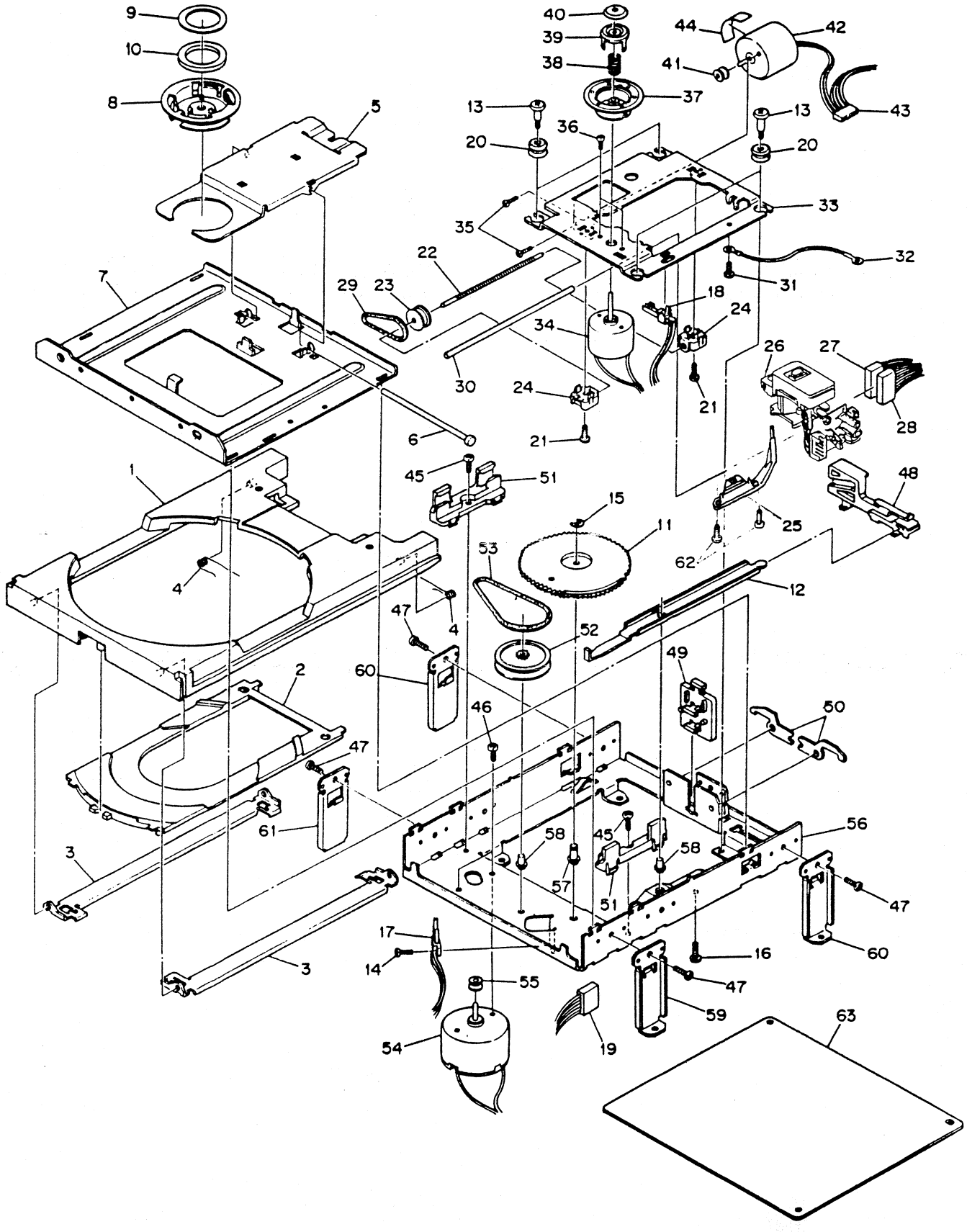
Ersatzteilliste elektrische Teile CDMC-FH028L
Spare parts list electrical parts CDMC-FH028L

Bestell-Nr./ Part. No.	Bezeichnung	Description	Position	Preisgruppe/ Price-key
65 326 00	Grundplatine CD	CD P.C.B.	CD 63	G 4
46 747 00	IC CXA 1081 S	IC CXA 1081 S	IC 201	B 4
48 791 00	IC CXA 1082 BS	IC CXA 1082 BS	IC 202	D 0
40 765 00	IC BA 4560	IC BA 4560	IC 203+702	A 6
48 944 00	IC CXP 5024 H-094 S	IC CXP 5024 H-094 S	IC 401	D 4
48 793 00	IC UPD 6376 CX	IC UPD 6376 CX	IC 701	C 6
24 796 00	Transistor 2 SA 934 TPQ	Transistor 2 SA 934 TPQ	Q 201	A 6
40 767 00	Transistor 2 SD 1762 Y 2 E	Transistor 2 SD 1762 Y 2 E	Q 202	A 7
29 590 00	Transistor 2 SC 1471 STPQ	Transistor 2 SC 1471 STPQ	div.	A 4
29 583 00	Transistor 2 SA 854 STPQ	Transistor 2 SA 854 STPQ	Q 204+303	A 5
29 582 00	Transistor 2 SC 2060 TPQ	Transistor 2 SC 2060 TPQ	Q 301	A 6
24 796 00	Transistor 2 SA 934 TPQ	Transistor 2 SA 934 TPQ	Q 302	A 6
34 692 00	Transistor 2 SC 1740 SWTPQ	Transistor 2 SC 1740 SWTPQ	div.	A 2
12 959 00	Transistor 2 SA 1015-Y	Transistor 2 SA 1015-Y	Q 501	A 6
34 601 00	Transistor 2 SA 933 STPR	Transistor 2 SA 933 STPR	Q 502+504	A 6
48 746 00	Transistor DTA 143 ESWTP	Transistor DTA 143 ESWTP	Q 708	A 3
48 747 00	Transistor BA 17805	Transistor BA 17805	Q 901	B 1
48 954 00	Transistor TA 79005 S	Transistor TA 79005 S	Q 902	B 2
29 622 00	Drehwiderstand 20 kOhm	Trimmer resistor 20 kOhm	VR 301	A 3
29 623 00	Drehwiderstand 1 kOhm	Trimmer resistor 1 kOhm	VR 601	A 3
46 839 00	Keramikfilter 4,0 MHz	Ceralock 4.0 MHz	X 401	A 7
60 484 00	Keramikfilter 8,46 MHz	Ceralock 8.46 MHz	X 601	B 1
65 346 00	IC-Zusatzplatine (IC CDX 1167 Q)	Sub P.C.B. (IC CDX 1167 Q)	SP 001	E 7

Ersatzteilliste CD-Mechanik
Spare parts list CD mechanism

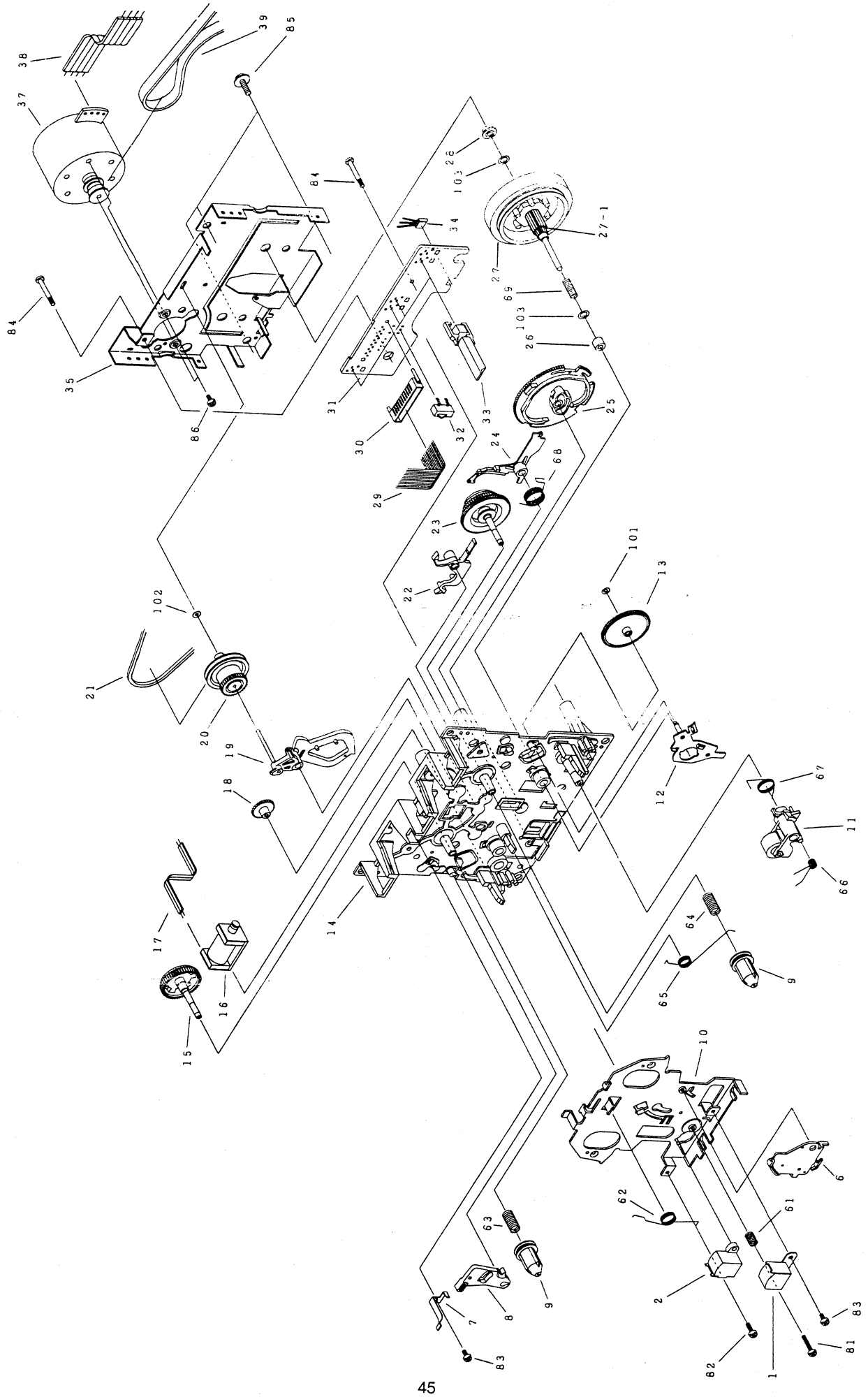
Bestell-Nr./ Part. No.	Bezeichnung	Description	Position	Preisgruppe/ Price-key
65 974 00	CD-Mechanik CDMC-FH028L	CD mechanism	A 4	G 7
46 755 00	Schlitten CD-Platte	Tray	CD 1	B 4
46 756 00	Auflagebügel CD-Platte	Lifter	CD 2	B 0
46 869 00	Feder Auflagebügel	Lifter spring	CD 4	A 2
46 757 00	Zentrierscheibe oben	Disc cramper	CD 8	A 3
46 758 00	Kurvenzahnrad Lademechanik	Drive gear	CD 11	A 9
46 759 00	Schaltkontakt	Leaf SW LSC-1223-31	CD 17	A 9
44 132 00	Mikroschalter	Leaf SW LSA-1115R2	CD 18	A 4
46 870 00	Gewindestange Laserschlitten	Lead screw	CD 22	B 1
44 121 00	Pulley Gewindestange	Feed Pulley	CD 23	A 2
48 943 00	Halterung Gewindestange	Bush	CD 24	A 2
65 339 00	Führung Gewindestange	L rack	CD 25	A 8
60 487 00	Laserabtaster TAHOS KP-1	Laser pick up TAHOS KP-1	CD 26	F 0
44 116 00	Riemen Lasermotor	Belt	CD 29	A 3
44 124 00	Gleitstange	Guide shaft	CD 30	A 4
46 761 00	Motor Antrieb CD-Platte	Disc motor	CD 34	C 0
46 762 00	Antriebsteller	Disc table	CD 37	B 0
46 872 00	Feder Antriebsteller	Locater spring	CD 38	A 1
46 763 00	Zentrierscheibe unten	Locater	CD 39	A 3
46 873 00	Kappe Zentrierscheibe	Locater cap	CD 40	A 3
44 115 00	Motorpulley Laser	Driving pulley	CD 41	A 1
48 784 00	Motor Laser	Feed motor	CD 42	C 2
46 874 00	Gleithebel Kippmechanik	Cam	CD 48	A 7
46 875 00	Druckhebel Kippmechanik	Slider	CD 49	A 5
46 764 00	Zwischenrad Lademechanik	Idle gear C	CD 52	A 3
46 765 00	Riemen Lademotor	Belt	CD 53	A 4
40 752 00	Motor Schlitten	Loading motor	CD 54	B 9
46 766 00	Pulley Lademotor	Motor pulley	CD 55	A 2

Explosionsdarstellung Mechanik
Exploded view mechanism

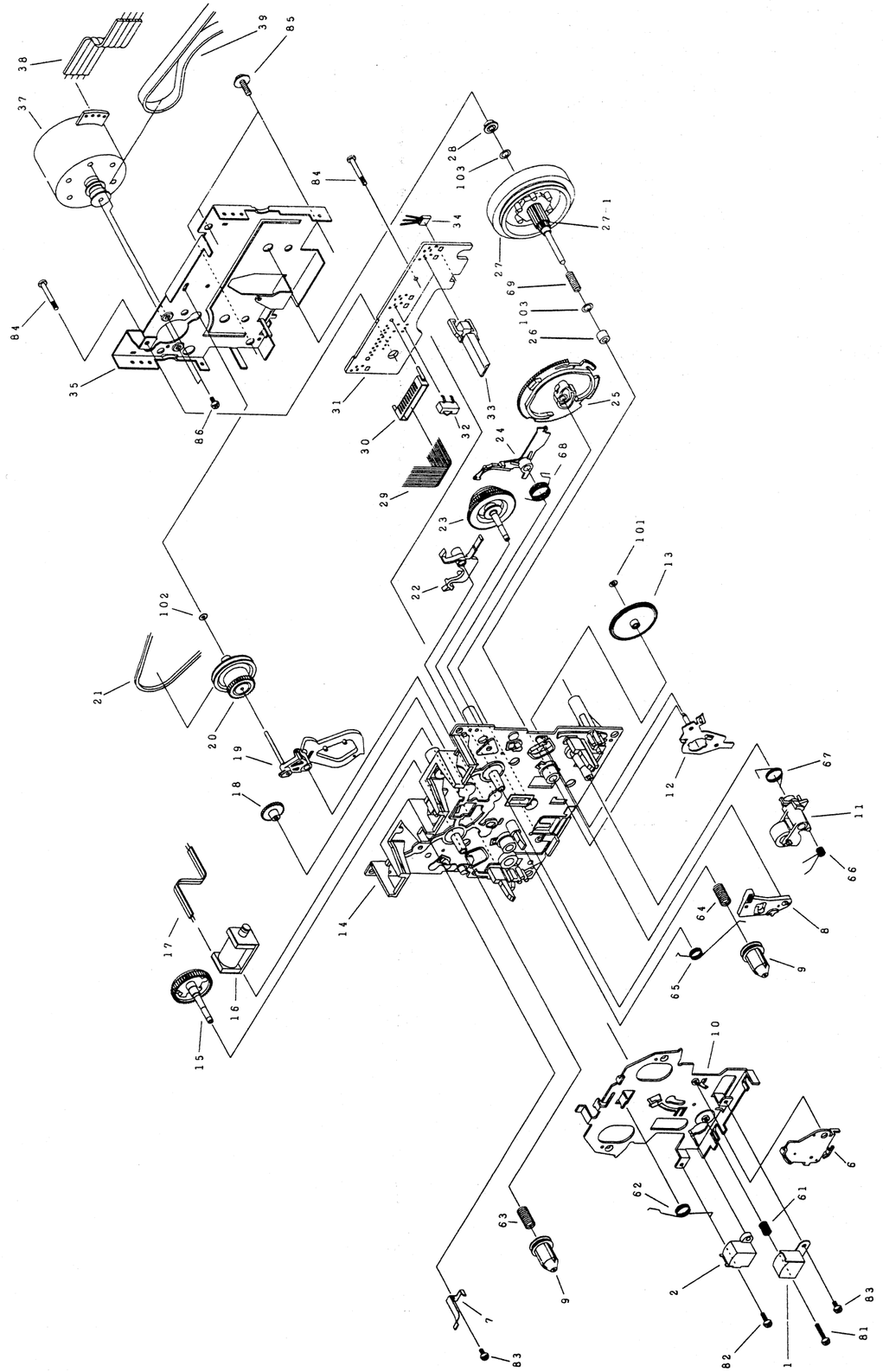


Explosionsdarstellung Cassettenmechanik Aufnahme/Wiedergabe

Exploded view RP mechanism



Explosionsdarstellung Cassettenmechanik Wiedergabe
Exploded view "Play" mechanism



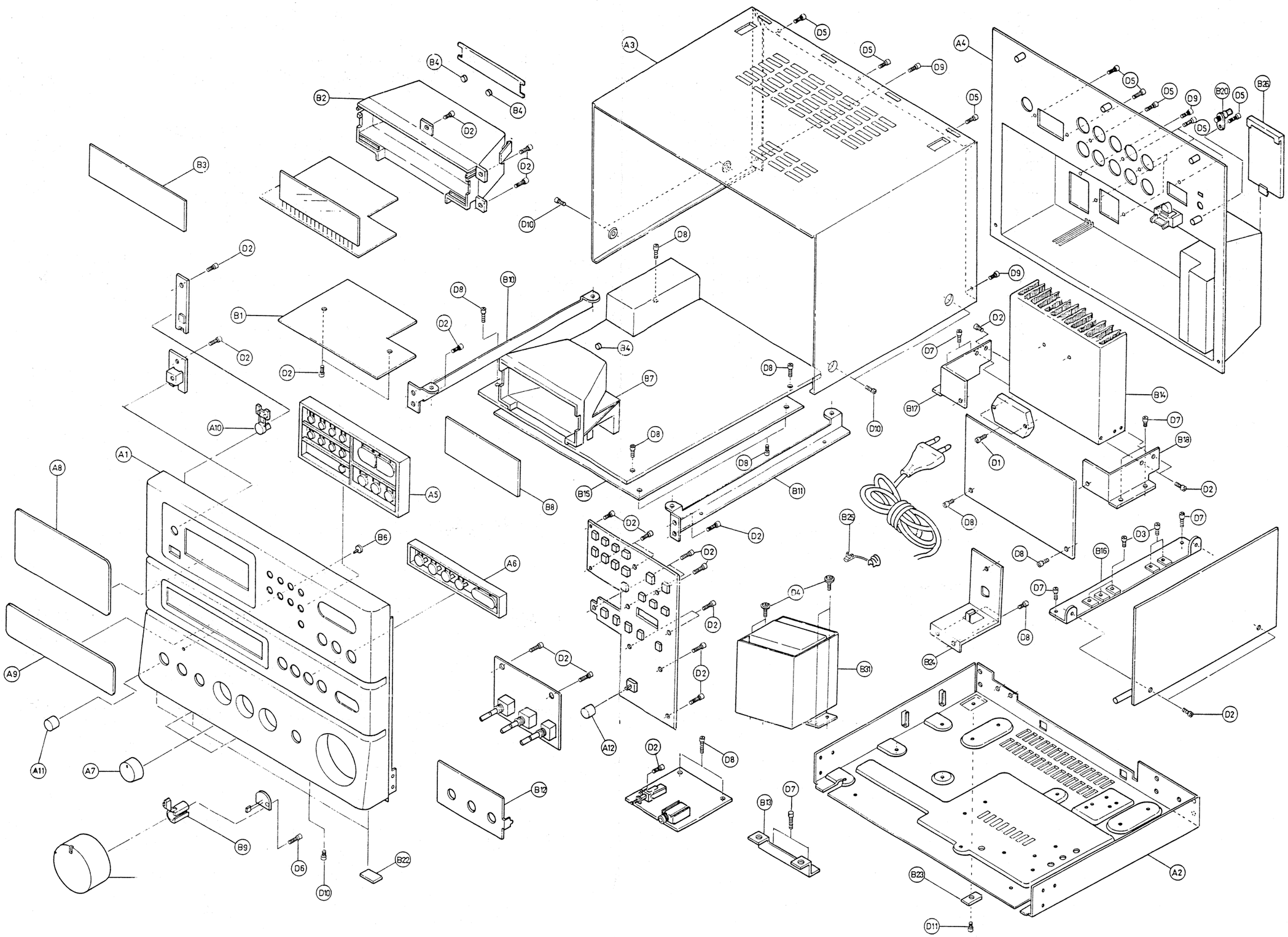
Ersatzteilliste Cassettenmechanik
Spare parts list mechanism cassette

Bestell-Nr./ Part. No.	Bezeichnung	Description	Position	Preisgruppe/ Price-key
65 938 00	Cassettenmechanik (A) kpl.	Cassette deck (R/P) CFF 406	C 1	E 4
65 939 00	Cassettenmechanik (B) kpl.	Cassette deck (P/A) CFF 405	C 2	E 3
65 940 00	A/W-Kopf	R/P head	1	C 3
65 941 00	Löschkopf (für 65 938 00)	E head	1.2	B 1
65 942 00	Attrappe Löschkopf (für 65 939 00)	Dummy head	2.2	A 3
65 943 00	Sperre Eject	Eject lock	8	A 2
65 973 00	Wickelteller	Cap reel	9	A 2
65 944 00	Bandandruckrolle kpl.	Assembly pinch arm R	11	B 0
65 945 00	Zahnrad »Play«	Gear play	13	A 4
65 946 00	Zahnrad Wickelteller links	Reel gear	15	A 7
65 947 00	Zylinderspule	Solenoid	16	B 6
65 948 00	Zahnrad »schneller Vorlauf«	Gear FF	18	A 3
65 949 00	Arm Rücklauf	Assembly arm FR	19	A 4
65 950 00	Rutschkupplung Rücklauf	Assembly pulley FR	20	A 9
65 951 00	Antriebsriemen »schneller Rücklauf«	Belt FR	21	A 5
65 952 00	Bremshebel	Arm brake	22	A 3
65 953 00	Zahnrad Wickelteller rechts	Assembly sub reel R	23	B 3
65 954 00	Hebel Kurvenzahnrad	Arm triger	24	A 3
65 955 00	Kurvenzahnrad	Gear cam	25	A 4
65 956 00	Schwungmasse kpl.	Flywheel assembly +27, 28, 69, 2×103	26	C 6
65 957 00	Antriebsriemen	Belt main	39	A 8
65 958 00	Feder A/W-Kopf	Spring R/P head	61	A 1
65 959 00	Feder Eject Sperre	Spring eject lock	62	A 2
65 960 00	Feder Wickelteller (L)	Spring cap reel (L)	63	A 1
65 961 00	Feder Wickelteller (R)	Spring cap reel (R)	64	A 1
65 962 00	Feder	Spring lift R/P head	65	A 1
65 963 00	Feder	Spring	66	A 1
65 964 00	Feder	Spring	67	A 1
65 965 00	Feder	Spring arm trigger	68	A 2
65 966 00	Beilagscheibe Zahnrad »Play«	Washer (gear play)	101	A 1
65 967 00	Beilagscheibe	Washer (assembly pulley)	102	A 0
65 968 00	Kontaktplatine Cassette	P.C.B.	31	B 2
65 969 00	Mikroschalter »Play«	Switch mode	32	A 9
65 970 00	Mikroschalter	Switch (leaf)	33	A 8
65 971 00	IC 9051	Hall I.C.	34	B 3
65 972 00	Antriebsmotor	Assembly motor	37	D 3

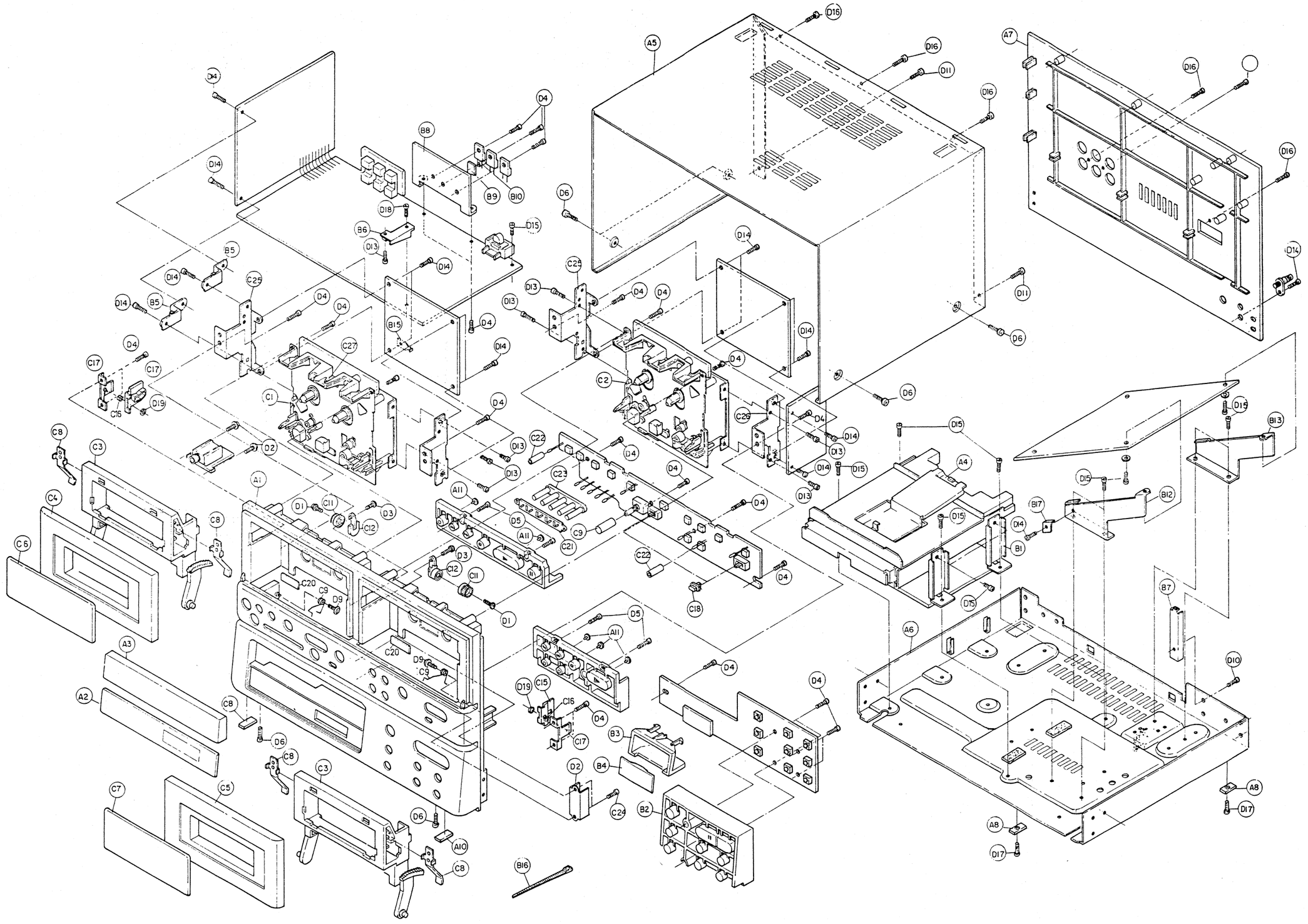
Ersatzteilliste Gehäuse MS 100 DC/CD
Spare parts list housing MS 100 DC/CD

Bestell-Nr./ Part. No.	Bezeichnung	Description	Position	Preisgruppe/ Price-key
65 896 00	Frontblende MS 100 DC/CD	Front panel	A 1	B 6
65 897 00	Anzeigefenster CD	CD display window	A 2	A 7
65 898 00	Schlittenblende CD	CD door	A 3	A 6
65 844 00	Gehäusedeckel	Top cover	A 5	C 9
65 843 00	Gehäuseboden	Bottom chassis	A 6	C 1
65 899 00	Gehäuserückwand	Back plate	A 7	B 2
65 857 00	LED Fenster (Cassette-Bedienfunktionen)	Minic LED mold	A 11	A 1
65 900 00	LED Fenster (Level Control)	Rec minic LED Mold	C 21	A 1
65 901 00	LED Abstandsbolzen (Bedienfunktionen)	LED spacer	C 22	A 0
65 902 00	LED Abstandsbolzen (Level Control)	Rec LED spacer	C 23	A 1
65 903 00	Tastenblock CD (9)	Preset button assembly (CD)	B 2	A 4
48 870 00	Anzeige (CD)	Display (CD)	B 3+4	C 4
45 379 00	Masseanschluß	Ground use terminal	B 14	A 4
65 904 00	Cassettenfach (A+B)	Cassette case (A+B)	C 3	A 4
65 905 00	Cassettenfachdeckel (A)	Cassette cover (A)	C 4	A 7
65 906 00	Cassettenfachdeckel (B)	Cassette cover (B)	C 5	A 7
65 907 00	Cassettenfachfenster (A)	Cassette window (A)	C 6	A 7
65 908 00	Cassettenfachfenster (B)	Cassette window (B)	C 7	A 7
65 909 00	Eject Hebel kpl.	Eject cam plate assembly	C 17	A 4
65 910 00	Feder Cassettenfach (L)	Cassette open spring (L)	C 9	A 2
65 911 00	Feder Cassettenfach (R)	Cassette open spring (R)	C 10	A 2
65 912 00	Dämpfer Cassettenfach + C 12	Gear damper assembly + C 12	C 11	A 2
65 913 00	Tastenblock Cassette (A) (6)	Cassette button assembly (A)	C 13	A 3
65 914 00	Tastenblock Cassette (B) (6)	Cassette button assembly (B)	C 14	A 3
65 915 00	Knopf (Continuous Play/Dolby)	Mode select button	C 18	A 1
65 916 00	Drehknopf Record Level	Rec knob	C 19	A 1
65 917 00	Cassettenandruckfeder	Cassette push spring	C 27	A 3

Explosionsdarstellung Gehäuse MS 100 T/AM
Exploded view housing MS 100 T/AM



Explosionsdarstellung Gehäuse MS 100 DC/CD
Exploded view housing MS 100 DC/CD



Ersatzteilliste Gehäuse MS 100 T/AM
Spare parts list housing MS 100 T/AM

Bestell-Nr./ Part. No.	Bezeichnung	Description	Position	Preisgruppe/ Price-key
65 842 00	Frontblende MS 100 T/AM	Front panel	A 1	B7
65 843 00	Gehäuseboden	Bottom chassis	A 2	C 0
65 844 00	Gehäusedeckel	Top cover	A 3	C 9
65 845 00	Gehäuserückwand	Back plate	A 4	B 3
65 846 00	Tastenblock Tuner (14)	Preset button assembly (tuner) (14)	A 5	A 4
65 847 00	Tastenblock Quellumschaltung (5)	Function button assembly (5)	A 6	A 3
65 848 00	Drehknopf Bass Treble, Balance	Tone knob	A 7	A 2
65 849 00	Abdeckfenster Tuner Anzeige	Tuner display window	A 8	A 8
65 850 00	Abdeckfenster Power Meter Anzeige	Meter window	A 9	A 7
65 851 00	Knopf Stand-by	Stand-by knob	A 10	A 1
65 852 00	Knopf Netzschalter	Power button	A 11	A 2
65 853 00	Knopf Loudness	Loudness button	A 12	A 1
65 854 00	Drehknopf Volume (ohne LED)	VR. knob (motor drive)	A 13	A 2
65 780 00	Fernbedienungsgeber MS 100	Remote control box assembly	A 14	D 6
65 855 00	LCD Anzeige kpl. (Power Meter)	LCD display (power meter)	B 2–4	D 7
65 860 00	LCD Anzeige kpl (Tuner)	Tuner display	B 7+8	C 9
65 856 00	Wurfantennenhalterung	Loop ant. holder	B 5	A 5
65 857 00	Stand-by LED Fenster (ohne LED)	Minic LED mold	B 6	A 0
65 858 00	Volumeregler LED Fenster (ohne LED)	VR knob minic LED	B 9	A 1
45 379 00	Masseanschluß	Ground use terminal	B 20	A 4
65 859 00	Batteriefachdeckel	Battery cover	B 26	A 3
65 861 00	Steuerleitung	Sytem control wire		B 3
65 862 00	Buchse Steuerleitung	DIN Jack		B 1

Bitte bei Ersatzteilbestellung die genaue Bezeichnung und **Ident-Nr. (siehe Typenschild)** des Gerätes sowie Bestell-Nummer und Positions-Nummer des Ersatzteils angeben.

For ordering of spare parts please state exact description and **ident no. of unit (see silver rating label on the backside of unit)** as well as part no. and position no. of required spare parts.

Benutzen Sie:

Telefax: 08245/51326

oder

Bildschirmtext *317298 #

Änderungen vorbehalten.
Modifications reserved.

6600200 HD 6/5269/2000/49/91